

Jürgen Engelfried. Last Update: April 30, 2025

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101 publications in refereed journals, with 5482 citations. H = 40 (autocitations removed)

3 Chapters in Books, with 83 citations.

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48 Publications in non-refereed journals, with 418 citations.

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43 Technical and internal reports with 4 citations.

205 publications in total, with 5993 citations.

Publications in Refereed Journals

101. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62*. (2025). [arXiv:2502.04241 \[hep-ex\]](#).

1 Citation:

E: Ovchinnikov, Maksym and Zaporozhchenko, Andrii: *Advancing the phenomenology of GeV-scale axion-like particles*. (2025). CERN-TH-2025-006, [arXiv:2501.04525 \[hep-ph\]](#).

100. Cortina Gil, Eduardo and others, NA62 Collaboration: *First detection of a tagged neutrino in the NA62 experiment*. *Phys. Lett. B* 863 139345 (2025). [arXiv:2412.04033 \[hep-ex\]](#).

1 Citation:

E: Acerbi, F. and others: *SBN@CERN: A short-baseline neutrino beam at CERN for high-precision cross-section measurements*. (2025). [arXiv:2503.21589 \[hep-ex\]](#).

99. Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio*. *JHEP* 02 191 (2025). [arXiv:2412.12015 \[hep-ex\]](#).

9 Citations:

E: Sun, Jin and Xing, Zhi-Peng and Yun, Seokhoon: *Probing ALP couplings to electroweak gauge bosons*. (2025). CTPU-PTC-25-03, [arXiv:2501.15250 \[hep-ph\]](#).

A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62*. (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).

E: Isidori, Gino: *Flavour Physics and CP Violation*. (2025). [arXiv:2503.14042 \[hep-ph\]](#).

E: Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data*. (2025). LAPTH-008/25, [arXiv:2503.05865 \[hep-ph\]](#).

E: Dery, Avital: *Natural complex plane for kaon CKM data: framework, status and future*. (2025). CERN-TH-2025-077, [arXiv:2504.12386 \[hep-ph\]](#).

E: Calibbi, Lorenzo and Li, Tong and Mukherjee, Lopamudra and Schmidt, Michael A.: *Is Dark Matter the origin of the $B \rightarrow K \nu \bar{\nu}$ excess at Belle II?*. (2025). [arXiv:2502.04900 \[hep-ph\]](#).

E: Allwicher, Lukas and Isidori, Gino and Pesut, Marko: *Flavored Circular Collider: cornering New Physics at FCC-ee via flavor-changing processes*. (2025). DESY-25-046, [arXiv:2503.17019 \[hep-ph\]](#).

E: Allwicher, Lukas and Bordone, Marzia and Isidori, Gino and Piazza, Gioacchino and Stanzione, Alfredo: *Probing third-generation New Physics with $K \rightarrow \pi \nu \bar{\nu}$ and $B \rightarrow K(\ast) \nu \bar{\nu}$* . *Phys. Lett. B* 861 139295 (2025). CERN-TH-2024-183, [arXiv:2410.21444 \[hep-ph\]](#).

E: Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).

98. Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays.* *Phys. Lett. B* 859 139122 (2024). [arXiv:2409.12981 \[hep-ex\]](#).

3 Citations:

- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN.* *10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024* 222 (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 445 (2025).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.

97. Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+ \gamma \gamma$ decay.* *Phys. Lett. B* 850 138513 (2024). [arXiv:2311.01837 \[hep-ex\]](#).

27 Citations:

- E:** Yang, Gang and Wang, Tianhong and Wang, Guo-Li: *Probing axion-like particles in leptonic decays of heavy mesons*.* *Chin. Phys. C* 49 013109 (2025). [arXiv:2407.05298 \[hep-ph\]](#).
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma \gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62.* (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN.* *10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024* 222 (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 445 (2025).
- E:** Mammen Abraham, Roshan and others, FASER Collaboration: *Shining light on the dark sector: search for axion-like particles and other new physics in photonic final states with FASER.* *JHEP* 01 199 (2025). CERN-EP-2024-262, [arXiv:2410.10363 \[hep-ex\]](#).
- E:** Delaunay, Cédric and Kitahara, Teppei and Soreq, Yotam and Zupan, Jure: *Light scalar beyond the Higgs mixing limit.* (2025). [arXiv:2501.16477 \[hep-ph\]](#).
- A:** Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment.* *31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024* 123 (2025).
- E:** Bai, Yang and Chen, Ting-Kuo and Liu, Jia and Ma, Xiaolin: *Wess-Zumino-Witten Interactions of Axions.* *Phys. Rev. Lett.* 134 081803 (2025). [arXiv:2406.11948 \[hep-ph\]](#).
- A:** Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 446 (2025).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN.* *Acta Phys. Polon. Supp.* 17 6–A18 (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode.* *Nuovo Cim. C* 47 91 (2024).
- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN.* *XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023* 040 (2024).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE.* *Workshop Italiano sulla Fisica Brad Alta IntensitGr.* *Proceedings of Science WIFAI2023* 027 (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN.* *International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023* 042 (2024).
- A:** Hives, Zdenko, NA62 Collaboration: *Precision Measurements and Prospects with Kaons at CERN.* *16th International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2023* 003 (2024).
- E:** Greljo, Admir and Smolkovič, Aleks and Valenti, Alessandro: *Froggatt-Nielsen ALP.* *JHEP* 09 174 (2024). [arXiv:2407.02998 \[hep-ph\]](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS.* *Nuovo Cim. C* 47 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- E:** Dai, Guo-Qiang and Yue, Chong-Xing and Bu, Yang-Yang and Wang, Yi-Hang: *Light axion-like particles and the pseudoscalar mesonic decays.* *Commun. Theor. Phys.* 76 095202 (2024).
- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment.* *Ukr. J. Phys.* 69 781 (2024).

- A: Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment*. [The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 336](#) (2024).
- A: Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN*. [EPJ Web Conf. 314 00003](#) (2024).
- E: Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. [JHEP 10 016](#) (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E: Bao, Shou-shan and Gao, Wenhai and Zhang, Hong and Zhou, Jian: *Constraining axion-gluon coupling in mono-hadron processes*. [Phys. Rev. D 110 055008](#) (2024). [arXiv:2405.18215 \[hep-ph\]](#).
- A: Baigarashev, D.: *Latest Results and Precision Measurements from the NA62 Experiment*. [Moscow Univ. Phys. Bull. 79 122–128](#) (2024).
- A: Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
96. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Leptonic Decays of Dark Photons at NA62*. [Phys. Rev. Lett. 133 111802](#) (2024). [arXiv:2312.12055 \[hep-ex\]](#).

23 Citations:

- E: Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons*. [JHEP 02 140](#) (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62*. (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- A: Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN*. [10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222](#) (2025).
- A: Lezki, Samet: *First NA62 search for long-lived new physics particle hadronic decays*. [42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 269](#) (2025).
- E: Kyselov, Yehor and Ovchinnikov, Maksym: *Searches for long-lived dark photons at proton accelerator experiments*. [Phys. Rev. D 111 015030](#) (2025). CERN-TH-2024-157, [arXiv:2409.11096 \[hep-ph\]](#).
- A: Kleimenova, Alina, NA62 Collaboration: *Latest results for searches of exotic decays with NA62 in beam-dump mode*. [31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 132](#) (2025).
- E: Hao, Yongliang and Chen, Zhenwei: *Dark photons from dineutron decays in neutron stars*. (2025). [arXiv:2504.05447 \[hep-ph\]](#).
- E: Hacisahinoglu, B. and Ozkorucuklu, S. and Ovchinnikov, M. and Albrow, M. G. and Penzo, A. and Aydilek, O.: *PREFACE: A search for long-lived particles at the Large Hadron Collider*. (2025). FERMILAB-PUB-25-0079-V, [arXiv:2502.14598 \[hep-ex\]](#).
- E: Garcia, Giovanni Dalla Valle and Kahlhoefer, Felix and Ovchinnikov, Maksym and Schwetz, Thomas: *Not-so-inelastic Dark Matter*. [JHEP 02 127](#) (2025). P3H-24-028, TTP24-011, [arXiv:2405.08081 \[hep-ph\]](#).
- A: Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62*. [42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445](#) (2025).
- E: Mammen Abraham, Roshan and others, FASER Collaboration: *Shining light on the dark sector: search for axion-like particles and other new physics in photonic final states with FASER*. [JHEP 01 199](#) (2025). CERN-EP-2024-262, [arXiv:2410.10363 \[hep-ex\]](#).
- E: Cheng, Hsin-Chia and Jiang, Xu-Hui and Li, Lingfeng: *Phenomenology of electroweak portal dark showers: high energy direct probes and low energy complementarity*. [JHEP 01 149](#) (2025). [arXiv:2408.13304 \[hep-ph\]](#).
- E: Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3*. (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- E: Arias-Aragón, Fernando and di Cortona, Giovanni Grilli and Nardi, Enrico and Veissière, Léo: *Atoms as Electron Accelerators for New Physics Searches*. (2025). [arXiv:2504.00100 \[hep-ph\]](#).
- A: Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment*. (2024). CERN-THESIS-2024-346.
- A: Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN*. [XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023 040](#) (2024).
- E: Knapen, Simon and Opferkuch, Toby and Redigolo, Diego and Tammaro, Michele: *Displaced Searches for Axion-Like Particles and Heavy Neutral Leptons at Mu3e*. (2024). [arXiv:2410.13941 \[hep-ph\]](#).
- E: Gao, Qiyuan and Lin, Dan and Liu, Hongkai and Ma, Teng: *Dark photons and axion-like particles at the Electron-Ion Collider in China*. (2024). [arXiv:2412.06301 \[hep-ph\]](#).

- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- A:** Duk, Viacheslav and Kirsanov, Mikhail, NA62, NA64 Collaboration: *Search for Dark Matter at NA62 and NA64 experiments. The Eleventh Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2023 178* (2024).
- A:** Dobrich, Babette: *Exotic particle searches at beam-dumps – dos and don'ts. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 012* (2024).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62. JHEP 10 016* (2024). [arXiv:2406.17599 \[hep-ph\]](#).
95. Bethani, Agni and others, NA62 Collaboration: *Development of a new CEDAR for kaon identification at the NA62 experiment at CERN. JINST 19 P05005* (2024). [arXiv:2312.17188 \[hep-ex\]](#).
- 4 Citations:
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
- E:** Andreev, Yu. M. and others, NA64 Collaboration: *Shedding light on dark sectors with high-energy muons at the NA64 experiment at the CERN SPS. Phys. Rev. D 110 112015* (2024). CERN-EP-2024-236, [arXiv:2409.10128 \[hep-ex\]](#).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
94. Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023. Eur. Phys. J. C 84 377* (2024). [arXiv:2311.02923 \[hep-ph\]](#).
- 29 Citations:
- E:** Roy, Arnab and Tandean, Jusak and Valencia, German: *$\Sigma^+ \rightarrow p \ell^+ \ell^-$ decays within the standard model and beyond. Phys. Rev. D 111 013003* (2025). [arXiv:2404.15268 \[hep-ph\]](#).
- E:** Popov, Nicolai and Briscoe, William J. and Strakovsky, Igor: *CP Violation Problem. Braz. J. Phys. 55 97* (2025). [arXiv:2404.19123 \[hep-ph\]](#).
- E:** Nanjo, Hajime, KOTO Collaboration: *KOTO II at J-PARC to measure the branching ratio of $K_L \rightarrow \pi^0 \nu \bar{\nu}$. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 464* (2025).
- E:** Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data.* (2025). LAPTH-008/25, [arXiv:2503.05865 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Theoretical implications for a new measurement of $K_L \rightarrow \pi^0 \ell \ell$. Phys. Rev. D 111 L011701* (2025). CERN-TH-2024-150, [arXiv:2409.06545 \[hep-ph\]](#).
- E:** Allwicher, Lukas and Bordone, Marzia and Isidori, Gino and Piazza, Gioacchino and Stanzione, Alfredo: *Probing third-generation New Physics with $K \rightarrow \pi \nu \nu^-$ and $B \rightarrow K(\ast) \nu \nu^-$. Phys. Lett. B 861 139295* (2025). CERN-TH-2024-183, [arXiv:2410.21444 \[hep-ph\]](#).
- E:** Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries.* (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- T:** Yu, Hang: *Higher Order QCD Correction in Weak Decay. doi:10.17638/03183133* (2024).
- E:** Wanke, Rainer: *Future Experiments of Kaon Physics. EPJ Web Conf. 312 03002* (2024).
- E:** Valencia, German: *Constraining new physics with hyperon decays. Corfu Summer Institute 2023 "School and Workshops on Elementary Particle Physics and Gravity". Proceedings of Science CORFU2023 078* (2024).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
- E:** Schacht, Stefan and Soni, Amarjit: *Rare K decays off and on the lattice. The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023 238* (2024). [arXiv:2312.05527 \[hep-ph\]](#).
- E:** Roy, Arnab and Valencia, German: *High- p_T LHC constraints on SMEFT operators affecting rare kaon and hyperon decays.* (2024). [arXiv:2410.05859 \[hep-ph\]](#).
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays. EPJ Web Conf. 312 03001* (2024).
- T:** Noël, Frederic: *$\mu \rightarrow e$ conversion in nuclei: EFT description, charge densities, and pseudo-scalar decays. doi:10.48549/5476* (2024).
- E:** Neshatpour, Siavash and D'Ambrosio, Giancarlo and Iyer, Abhishek and Mahmoudi, Farvah: *Kaon rare decays: theory overview. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 026* (2024). CERN-TH-2024-034.

- E:** Neshatpour, Siavash: *Short-Distance Physics with Rare Kaon Decays*. *Symmetry* **16** 946 (2024).
- T:** Mukherjee, Rajnandini: *Applications of non-perturbative renormalisation for lattice QCD*. (2024).
- E:** Lunghi, Enrico and Soni, Amarjit: *Light quark loops in $K^\pm \rightarrow \pi^\pm \nu \bar{\nu}$ from vector meson dominance and update on the Kaon Unitarity Triangle*. *JHEP* **12** 097 (2024). [arXiv:2408.11190 \[hep-ph\]](#).
- E:** Hoid, Bai-Long and Hoferichter, Martin and de Elvira, Jacobo Ruiz: *Comparing phenomenological estimates of dilepton decays of pseudoscalar mesons with lattice QCD*. *The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023* **244** (2024). [arXiv:2312.00520 \[hep-lat\]](#).
- E:** Hoferichter, Martin and Hoid, Bai-Long and de Elvira, Jacobo Ruiz: *Improved Standard-Model prediction for $K_L \rightarrow \ell^+ \ell^-$* . *JHEP* **04** 071 (2024). IPARCOS-UCM-23-089, [arXiv:2310.17689 \[hep-ph\]](#).
- E:** Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ distributions*. *Eur. Phys. J. C* **84** 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Di Carlo, Matteo: *Isospin-breaking corrections to weak decays: the current status and a new infrared improvement*. *The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023* **120** (2024). CERN-TH-2024-005, [arXiv:2401.07666 \[hep-lat\]](#).
- E:** D'Ambrosio, Giancarlo and Knecht, Marc: *Predictions for the Rare Kaon Decays $K_{S,L} \rightarrow \pi^0 \ell^+ \ell^-$ from QCD in the Limit of a Large Number of Colours*. *Universe* **10** 457 (2024). [arXiv:2409.08568 \[hep-ph\]](#).
- E:** Cirigliano, Vincenzo and Dekens, Wouter and de Vries, Jordy and Gandolfi, Stefano and Hoferichter, Martin and Mereghetti, Emanuele: *Ab initio electroweak corrections to superallowed β decays and their impact on V_{ud}* . *Phys. Rev. C* **110** 055502 (2024). INT-PUB-24-021, LA-UR-24-25160, [arXiv:2405.18464 \[nucl-th\]](#).
- E:** Chakraborty, Bipasha and Gilman, Alex and Hoferichter, Martin and Koval, Michal: *Working group 1 summary: V_{ud} , V_{us} , V_{cd} , V_{cs} and semileptonic/leptonic D decays*. (2024). [arXiv:2406.13703 \[hep-ph\]](#).
- E:** Capdevila, Bernat and Crivellin, Andreas and Lizana, Javier M. and Pokorski, Stefan: *$SU(2)_L$ deconstruction and flavour (non)-universality*. *JHEP* **08** 031 (2024). ZU-TH 02/24, IFT-UAM/CSIC-23-162, IFT-UAM/CSIC-23-85, [arXiv:2401.00848 \[hep-ph\]](#).
- E:** Boyle, Peter A. and Erben, Felix and Flynn, Jonathan M. and Garron, Nicolas and Kettle, Julia and Mukherjee, Rajnandini and Tsang, J. Tobias, RBC, UKQCD Collaboration: *Kaon mixing beyond the standard model with physical masses*. *Phys. Rev. D* **110** 034501 (2024). CERN-TH-2024-040, LTH 1366, [arXiv:2404.02297 \[hep-lat\]](#).
93. Cortina Gil, Eduardo and others, NA62 Collaboration: *Improved calorimetric particle identification in NA62 using machine learning techniques*. *JHEP* **11** 138 (2023). [arXiv:2304.10580 \[hep-ex\]](#).
- 1 Citation:
- E:** Lv, S. K. and Dai, C. S. and Hu, D. D. and Zhong, T. C. and Wu, W. F. and Wang, X. J.: *Performance Study of a Position-sensitive Plastic Scintillator Detector*. (2025). [arXiv:2504.19083 \[physics.ins-det\]](#).
92. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays into the $\pi^+ e^+ e^- e^+ e^-$ final state*. *Phys. Lett. B* **846** 138193 (2023). [arXiv:2307.04579 \[hep-ex\]](#).
- 22 Citations:
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN*. *10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024* **222** (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62*. *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* **445** (2025).
- A:** Ceoletta, Marco, NA62 Collaboration: *Searches for Lepton Flavour and Number Violation and Hidden Sector Particles at NA62*. *31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024* **133** (2025).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN*. *Acta Phys. Polon. Supp.* **17** 6–A18 (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode*. *Nuovo Cim. C* **47** 91 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* **335** (2024).

- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN. XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023 040* (2024).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 \& HIKE. Workshop Italiano sulla Fisica Brad Alta IntensitFr. Proceedings of Science WIFAI2023 027* (2024).
- E:** Krasznahorky, A. J. and Krasznahorkay, A. and Csatlós, Margit and Timár, János and Begala, Marcell and Krakó, Attila and Rajta, István and Vajda, István and Sas, Nándor J.: *An Update of the Hypothetical X17 Particle. Universe 10 409* (2024). [arXiv:2409.16300 \[nucl-ex\]](#).
- E:** Girmohanta, Sudhakantha and Nakagawa, Shota and Nakai, Yuichiro and Xu, Junxuan: *How viable is a QCD axion near 10 MeV?. JHEP 10 153* (2024). [arXiv:2405.13425 \[hep-ph\]](#).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- T:** Armando, Giovanni: *Dark Matter Phenomenology Across Scales: From Ultralight to WIMPs.* (2024).
- E:** Armando, Giovanni and Panci, Paolo and Weiss, Joachim and Ziegler, Robert: *Leptonic ALP portal to the dark sector. Phys. Rev. D 109 055029* (2024). TTP23-045, P3H-23-071, MPP-2023-240, FR-PHENO-2023-11, [arXiv:2310.05827 \[hep-ph\]](#).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023. Eur. Phys. J. C 84 377* (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E:** Anh, Tran The and others: *Checking the ^8Be Anomaly with a Two-Arm Electron Positron Pair Spectrometer. Universe 10 168* (2024). [arXiv:2401.11676 \[nucl-ex\]](#).
- E:** Abdallah, Waleed and Gandhi, Raj and Ghosh, Tathagata and Khan, Najimuddin and Roy, Samiran and Roy, Subhojit: *A 17 MeV pseudoscalar and the LSND, MiniBooNE and ATOMKI anomalies. JHEP 10 086* (2024). HRI-RECAPP-2024-02, [arXiv:2406.07643 \[hep-ph\]](#).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- E:** Krasznahorkay, A. J. and Krasznahorkay, A. and Csatlós, M. and Csige, L. and Timár, J. and Begala, M. and Krakó, A. and Rajta, I. and Vajda, I.: *Observation of the X17 anomaly in the decay of the Giant Dipole Resonance of ^8Be .* (2023). [arXiv:2308.06473 \[nucl-ex\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments.* (2023). CERN-THESIS-2023-421.
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
91. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for dark photon decays to $\mu^+ \mu$ at NA62. JHEP 09 035* (2023). [arXiv:2303.08666 \[hep-ex\]](#).
- 43 Citations:
- E:** Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons. JHEP 02 140* (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- E:** Ovchinnikov, Maksym and Zaporozhchenko, Andrii: *Advancing the phenomenology of GeV-scale axion-like particles.* (2025). CERN-TH-2025-006, [arXiv:2501.04525 \[hep-ph\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62.* (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. 10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- A:** Lezki, Samet: *First NA62 search for long-lived new physics particle hadronic decays. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 269* (2025).
- E:** Kyselov, Yehor and Mrenna, Stephen and Ovchinnikov, Maksym: *New physics particles mixing with mesons: production in the fragmentation chain.* (2025). CERN-TH-2025-073, FERMILAB-PUB-25-0200-CSAID, [arXiv:2504.06828 \[hep-ph\]](#).
- E:** Kyselov, Yehor and Ovchinnikov, Maksym: *Searches for long-lived dark photons at proton accelerator experiments. Phys. Rev. D 111 015030* (2025). CERN-TH-2024-157, [arXiv:2409.11096 \[hep-ph\]](#).
- A:** Kleimenova, Alina, NA62 Collaboration: *Latest results for searches of exotic decays with NA62 in beam-dump mode. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 132* (2025).
- E:** Garcia, Giovanni Dalla Valle and Kahlhoefer, Felix and Ovchinnikov, Maksym and Schwetz, Thomas: *Not-so-inelastic Dark Matter. JHEP 02 127* (2025). P3H-24-028, TTP24-011, [arXiv:2405.08081 \[hep-ph\]](#).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).

- E:** Dalla Valle Garcia, Giovanni and Ovchynnikov, Maksym: *Di-decay signature of new physics particles at intensity frontier experiments*. (2025). [arXiv:2503.01760 \[hep-ph\]](#).
- E:** Balkin, Reuven and Burger, Noam and Feng, Jonathan L. and Shadmi, Yael: *Flavor at FASER: discovering light scalars beyond minimal flavor violation*. *JHEP* 04 071 (2025). UCI-TR-2024-24, [arXiv:2412.15197 \[hep-ph\]](#).
- E:** Balan, Sowmiya and others: *Resonant or asymmetric: the status of sub-GeV dark matter*. *JCAP* 01 053 (2025). TTP24-015, P3H-24-033, [arXiv:2405.17548 \[hep-ph\]](#).
- E:** Tran, Van Que and Nguyen, Thong T. Q. and Yuan, Tzu-Chiang: *Self-interacting vectorial dark matter in a SM-like dark sector*. *JCAP* 05 015 (2024). [arXiv:2312.10785 \[hep-ph\]](#).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment*. (2024). CERN-THESIS-2024-346.
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN*. *Acta Phys. Polon. Supp.* 17 6–A18 (2024).
- E:** Smith, Tyler B. and Tait, Tim M. P.: *Conserved Currents are Not Anomaly-Safe*. (2024). UCI-HEP-TR-2023-12, [arXiv:2401.02483 \[hep-ph\]](#).
- A:** Schubert, Jonathan Leon, NA62 Collaboration: *New results for searches of exotic decays with NA62 in beam dump mode*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 045* (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode*. *Nuovo Cim. C* 47 91 (2024).
- E:** **Navas, S. and others, Particle Data Group Collaboration: Review of particle physics**. *Phys. Rev. D* 110 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335* (2024).
- E:** Nomura, Takaaki and Yagyu, Kei: *Triple Z' signatures at Z factories*. (2024). OU-HET-1251, [arXiv:2412.06302 \[hep-ph\]](#).
- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN. XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023 040* (2024).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Leptonic Decays of Dark Photons at NA62*. *Phys. Rev. Lett.* 133 111802 (2024). CERN-EP-2023-296, [arXiv:2312.12055 \[hep-ex\]](#).
- E:** Knapen, Simon and Opferkuch, Toby and Redigolo, Diego and Tammaro, Michele: *Displaced Searches for Axion-Like Particles and Heavy Neutral Leptons at Mu3e*. (2024). [arXiv:2410.13941 \[hep-ph\]](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* 47 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- A:** Duk, Viacheslav and Kirsanov, Mikhail, NA62, NA64 Collaboration: *Search for Dark Matter at NA62 and NA64 experiments*. *The Eleventh Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2023 178* (2024).
- A:** Dobrich, Babette: *Exotic particle searches at beam-dumps – dos and don'ts*. *Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 012* (2024).
- E:** Bertuzzo, Enrico and Frigerio, Michele: *Two portals to GeV sterile neutrinos : dipole versus mixing*. (2024). [arXiv:2412.10101 \[hep-ph\]](#).
- E:** Bechtel, Philip and others: *A Proposal for the Lohengrin Experiment to Search for Dark Sector Particles at the ELSA Accelerator*. (2024). [arXiv:2410.10956 \[hep-ex\]](#).
- E:** Barman, Basabendu and Das, Arindam and Mandal, Sanjoy: *Dark matter-electron scattering and freeze-in scenarios in the light of Z' mediation*. *Phys. Rev. D* 110 055029 (2024). [arXiv:2407.00969 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* 10 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Asai, Kento and Das, Arindam and Li, Jinmian and Nomura, Takaaki and Seto, Osamu: *Probing for chiral Z' gauge boson through scattering measurement experiments*. *Phys. Rev. D* 109 075026 (2024). EPHOU-23-013, [arXiv:2307.09737 \[hep-ph\]](#).
- E:** Jodłowski, Krzysztof and Roszkowski, Leszek and Trojanowski, Sebastian: *Indirect detection of long-lived particles in a rich dark sector with a dark vector portal*. *Phys. Rev. D* 108 115026 (2023). CTPU-PTC-23-51, [arXiv:2112.11993 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.
- E:** Hostert, Mathias and Menzo, Tony and Pospelov, Maxim and Zupan, Jure: *New physics in multi-electron muon decays*. *JHEP* 10 006 (2023). [arXiv:2306.15631 \[hep-ph\]](#).

- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ measurement at NA62.* (2023). CERN-THESIS-2023-422.
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities.* *JHEP* **08 092** (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Araki, Takeshi and Asai, Kento and Iizawa, Tomoya and Otono, Hidetoshi and Shimomura, Takashi and Takubo, Yosuke: *New constraint on dark photon at T2K off-axis near detector.* *JHEP* **11 056** (2023). UME-PP-026, KYUSHU-HET-262, [arXiv:2308.01565 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3.* (2023). [arXiv:2310.17726 \[hep-ex\]](#).
90. Cortina Gil, Eduardo and others, NA62 Collaboration: *A study of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay.* *JHEP* **09 040** (2023). [arXiv:2304.12271 \[hep-ex\]](#).

26 Citations:

- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN.* *10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- A:** Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment.* *31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 123* (2025).
- E:** Tiurin, I. S., OKA Collaboration: *$K^+ \rightarrow \pi^0 \mu^+ \nu \gamma$ Radiative Decay: Recent Results from the “OKA” Experiment.* *Moscow Univ. Phys. Bull.* **79 131–134** (2024).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN.* *Acta Phys. Polon. Supp.* **17 6–A18** (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode.* *Nuovo Cim. C* **47 91** (2024).
- E:** Polyarush, A. Yu.: *Study of $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ Decay with OKA Setup.* *Moscow Univ. Phys. Bull.* **79 135–137** (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110 030001** (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335* (2024).
- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN.* *XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023 040* (2024).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE.* *Workshop Italiano sulla Fisica ad Alta Intensità.* *Proceedings of Science WIFAI2023 027* (2024).
- A:** Kucerova, Zuzana: *Recent results from the NA62 experiment at CERN.* *Nucl. Part. Phys. Proc.* **343 125–129** (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN.* *International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042* (2024).
- A:** Hives, Zdenko, NA62 Collaboration: *Precision Measurements and Prospects with Kaons at CERN.* *16th International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2023 003* (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS.* *Nuovo Cim. C* **47 86** (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- A:** Fiorenza, Renato, NA48/2, NA62 Collaboration: *Precision measurements with Kaon decays at CERN.* *EPJ Web Conf.* **291 01003** (2024).
- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment.* *Ukr. J. Phys.* **69 781** (2024).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 336* (2024).
- A:** Baigarashev, D.: *Latest Results and Precision Measurements from the NA62 Experiment.* *Moscow Univ. Phys. Bull.* **79 122–128** (2024).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023.* *Eur. Phys. J. C* **84 377** (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).

- A: Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- A: Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T: Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62.* (2023). CERN-THESIS-2023-422.
- E: Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3.* (2023). [arXiv:2310.17726 \[hep-ex\]](#).
89. Panichi, I. and others, NA62 Collaboration: *High level performance of the NA62 RICH detector.* *Nucl. Instrum. Meth. A* **1045** 167583 (2023).
- 1 Citation:
- A: Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
88. Cortina Gil, Eduardo and others, NA62 Collaboration: *Performance of the NA62 trigger system.* *JHEP* **03 122** (2023). [arXiv:2208.00897 \[hep-ex\]](#).
- 36 Citations:
- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A: Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. 10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *First detection of a tagged neutrino in the NA62 experiment.* *Phys. Lett. B* **863** 139345 (2025). CERN-EP-2024-324, [arXiv:2412.04033 \[hep-ex\]](#).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio.* *JHEP* **02 191** (2025). CERN-EP-2024-343, [arXiv:2412.12015 \[hep-ex\]](#).
- A: Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- A: Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 123* (2025).
- A: Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 446* (2025).
- T: Zuniga Moreno, Erick Israel: *Medición de $\mathcal{B}(K^+ \rightarrow e^+ \nu_e)/\mathcal{B}(K^+ \rightarrow \pi^0 e^+ \nu_e)$.* (2024).
- A: Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
- A: Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode.* *Nuovo Cim. C* **47 91** (2024).
- A: Romano, Angela: *Status and Prospects of $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO. 20th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2023 050* (2024).
- A: Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 071* (2024).
- A: Peruzzo, Letizia, NA62 Collaboration: *Precision measurements with Kaons at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 070* (2024).
- A: Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335* (2024).
- A: Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN. XVIII International Conference on Topics in Astroparticle and Underground Physics. Proceedings of Science TAUP2023 040* (2024).
- A: Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays.* *Phys. Lett. B* **859** 139122 (2024). CERN-EP-2024-224, [arXiv:2409.12981 \[hep-ex\]](#).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+ \gamma \gamma$ decay.* *Phys. Lett. B* **850** 138513 (2024). CERN-EP-2023-247, [arXiv:2311.01837 \[hep-ex\]](#).
- A: Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 027* (2024).
- A: Kucerova, Zuzana: *Recent results from the NA62 experiment at CERN.* *Nucl. Part. Phys. Proc.* **343** 125–129 (2024).
- A: Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS.* *Nuovo Cim. C* **47 86** (2024).

- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- A:** Fiorenza, Renato, NA48/2, NA62 Collaboration: *Precision measurements with Kaon decays at CERN.* *EPJ Web Conf.* **291** 01003 (2024).
- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment.* *Ukr. J. Phys.* **69** 781 (2024).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 336 (2024).
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN.* *EPJ Web Conf.* **314** 00003 (2024).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Improved calorimetric particle identification in NA62 using machine learning techniques.* *JHEP* **11** 138 (2023). CERN-EP-2023-066, [arXiv:2304.10580 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays into the $\pi^+ e^+ e^- e^+ e^-$ final state.* *Phys. Lett. B* **846** 138193 (2023). CERN-EP-2023-133, [arXiv:2307.04579 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for dark photon decays to $\mu^+ \mu^-$ at NA62.* *JHEP* **09** 035 (2023). CERN-EP-2023-032, [arXiv:2303.08666 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A study of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay.* *JHEP* **09** 040 (2023). CERN-EP-2023-069, [arXiv:2304.12271 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay.* *Phys. Lett. B* **838** 137679 (2023). CERN-EP-2022-243, [arXiv:2211.04818 \[hep-ex\]](#).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN.* *Phys. Atom. Nucl.* **86** 1301–1309 (2023).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62.* (2023). CERN-THESIS-2023-422.
- A:** Brizioli, Francesco, NA62 Collaboration: *Measurement of the very rare $K^+ \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment.* *J. Phys. Conf. Ser.* **2446** 012002 (2023).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay.* *JHEP* **11** 011 (2022). [Addendum: *JHEP* **06**, 040 (2023)] CERN-EP-2022-189, [arXiv:2209.05076 \[hep-ex\]](#).
- T:** Fonseca Vázquez, María José: *Producción de K_S^0 en CERN-NA62.* (2022).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62.* (2022). CERN-THESIS-2022-272.
87. Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay.* *Phys. Lett. B* **838** 137679 (2023). [arXiv:2211.04818 \[hep-ex\]](#).

23 Citations:

- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN.* *10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024* 222 (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 445 (2025).
- A:** Ceoletta, Marco, NA62 Collaboration: *Searches for Lepton Flavour and Number Violation and Hidden Sector Particles at NA62.* *31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024* 133 (2025).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN.* *Acta Phys. Polon. Supp.* **17** 6–A18 (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode.* *Nuovo Cim. C* **47** 91 (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN.* *8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022* 071 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 335 (2024).
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays.* *Phys. Lett. B* **859** 139122 (2024). CERN-EP-2024-224, [arXiv:2409.12981 \[hep-ex\]](#).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE.* *Workshop Italiano sulla Fisica Brad Alta Intensità.* *Proceedings of Science WIFAI2023* 027 (2024).

- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN. International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042* (2024).
- E:** Frau, Giulia and Langenbruch, Christoph: *Charged Lepton-Flavour Violation. Symmetry 16 359* (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS. Nuovo Cim. C 47 86* (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023. Eur. Phys. J. C 84 377* (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62. JINST 18 C12018* (2023).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN. Phys. Atom. Nucl. 86 1301–1309* (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62.* (2023). CERN-THESIS-2023-422.
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report. Eur. Phys. J. C 83 1122* (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Ahdidia, C. and others: *Post-LS3 Experimental Options in ECN3.* (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- A:** Duk, Viacheslav: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment. 41st International Conference on High Energy physics. Proceedings of Science ICHEP2022 705* (2022).
86. Duk, V. and others: *Particle identification with the NA62 RICH detector. Nucl. Instrum. Meth. A 1057 168689* (2023).
85. Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating $K^+ \rightarrow \pi^-(\pi^0)e^+e^+$ decays. Phys. Lett. B 830 137172* (2022). [arXiv:2202.00331 \[hep-ex\]](#).
- 40 Citations:
- E:** González, Marcela and Neill, Nicolás A.: *QCD running in lepton number violating meson and tau decays. Phys. Rev. D 111 015041* (2025). [arXiv:2309.14445 \[hep-ph\]](#).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN. Acta Phys. Polon. Supp. 17 6–A18* (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode. Nuovo Cim. C 47 91* (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 071* (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics. Phys. Rev. D 110 030001* (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335* (2024).
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays. Phys. Lett. B 859 139122* (2024). CERN-EP-2024-224, [arXiv:2409.12981 \[hep-ex\]](#).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 \& HIKE. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 027* (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN. International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042* (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS. Nuovo Cim. C 47 86* (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023. Eur. Phys. J. C 84 377* (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).

- A: Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. [JINST 18 C12018](#) (2023).
- A: Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62*. [21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018](#) (2023).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay*. [Phys. Lett. B 838 137679](#) (2023). CERN-EP-2022-243, [arXiv:2211.04818 \[hep-ex\]](#).
- A: Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN*. [Phys. Atom. Nucl. 86 1301–1309](#) (2023).
- A: Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. [J. Phys. Conf. Ser. 2446 012022](#) (2023).
- A: Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- E: Hernández-Tomé, Gerardo and Portillo-Sánchez, Diego and Toledo, Genaro: *Resonant Majorana neutrino effects in $\Delta L=2$ four-body hyperon decays*. [Phys. Rev. D 107 055042](#) (2023). [arXiv:2212.03994 \[hep-ph\]](#).
- T: Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E: Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. [Rept. Prog. Phys. 86 016201](#) (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- A: Duk, V. and others: *Particle identification with the NA62 RICH detector*. [Nucl. Instrum. Meth. A 1057 168689](#) (2023).
- A: Bizzeti, Andrea: *Recent results from the NA62 and NA48/2 experiments at CERN*. [Nucl. Part. Phys. Proc. 324-329 113–118](#) (2023).
- E: Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. [Eur. Phys. J. C 83 1122](#) (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- A: Ammendola, R. and others: *The NA62 level 0 calorimetric trigger fast readout implementation, commissioning and data taking performances*. [JINST 18 C02049](#) (2023).
- E: Alves, Daniele S. M. and others: *Shedding light on X17: community report*. [Eur. Phys. J. C 83 230](#) (2023).
- E: Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E: Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. [J. Phys. G 50 020501](#) (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- T: Zhou, Guanghui: *Sterile neutrinos and effective field theory*. (2022).
- E: Zhou, Guanghui: *Light sterile neutrinos and lepton-number-violating kaon decays in effective field theory*. [JHEP 06 127](#) (2022). [arXiv:2112.00767 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2022 083C01](#) (2022).
- A: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A: Kholodenko, Sergei and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. [7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021 066](#) (2022).
- E: Husek, Tomáš: *Standard Model estimate of $K^+ \rightarrow \pi^+ 4e$ branching ratio*. [Phys. Rev. D 106 L071301](#) (2022). LU TP 22-46, [arXiv:2207.02234 \[hep-ph\]](#).
- E: Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E: Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- A: Duk, Viacheslav: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. [41st International Conference on High Energy physics. Proceedings of Science ICHEP2022 705](#) (2022).
- A: Corvino, Michele, NA48/2, NA62 Collaboration: *Latest results from NA62 and NA48/2 experiments*. [EPJ Web Conf. 270 00008](#) (2022).
- T: Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
84. Cortina Gil, Eduardo and others, NA62 Collaboration: *A measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay*. [JHEP 11 011](#) (2022). [Addendum: [JHEP 06, 040](#) (2023)], [arXiv:2209.05076 \[hep-ex\]](#).
- 49 Citations:
- E: Roy, Arnab and Tandean, Jusak and Valencia, German: *$\Sigma^+ \rightarrow p \ell^+ \ell^-$ decays within the standard model and beyond*. [Phys. Rev. D 111 013003](#) (2025). [arXiv:2404.15268 \[hep-ph\]](#).
- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma \gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).

- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. 10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- E:** Karmakar, Siddhartha and Dighe, Amol and Gupta, Rick S.: *SMEFT predictions for semileptonic processes. Phys. Rev. D 111 055002* (2025). TIFR/TH/24-3, arXiv:2404.10061 [hep-ph].
- E:** Hodgson, Raoul and Guelpers, Vera and Hill, Ryan and Portelli, Antonin: *Split-even approach to the rare kaon decay $K \rightarrow \pi \ell^+ \ell^-$. The 41st International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2024 258* (2025). DESY-25-016, arXiv:2501.18358 [hep-lat].
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Theoretical implications for a new measurement of $K_L \rightarrow \pi^0 \ell \ell$. Phys. Rev. D 111 L011701* (2025). CERN-TH-2024-150, arXiv:2409.06545 [hep-ph].
- A:** Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 123* (2025).
- E:** Zhang, Sheng-Qi and Qiao, Cong-Feng: *Rare Λc decays and new physics effects. Phys. Rev. D 110 114040* (2024). arXiv:2411.15857 [hep-ph].
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN. Acta Phys. Polon. Supp. 17 6–A18* (2024).
- E:** Smith, Tyler B. and Tait, Tim M. P.: *Conserved Currents are Not Anomaly-Safe.* (2024). UCI-HEP-TR-2023-12, arXiv:2401.02483 [hep-ph].
- E:** Roy, Arnab and Valencia, German: *High- p_T LHC constraints on SMEFT operators affecting rare kaon and hyperon decays.* (2024). arXiv:2410.05859 [hep-ph].
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode. Nuovo Cim. C 47 91* (2024).
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays. EPJ Web Conf. 312 03001* (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Precision measurements with Kaons at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 070* (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: **Review of particle physics. Phys. Rev. D 110 030001** (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335* (2024).
- E:** Neshatpour, Siavash and D'Ambrosio, Giancarlo and Iyer, Abhishek and Mahmoudi, Farvah: *Kaon rare decays: theory overview. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 026* (2024). CERN-TH-2024-034.
- E:** Neshatpour, Siavash: *Short-Distance Physics with Rare Kaon Decays. Symmetry 16 946* (2024).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 \& HIKE. Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 027* (2024).
- A:** Kucerova, Zuzana: *Recent results from the NA62 experiment at CERN. Nucl. Part. Phys. Proc. 343 125–129* (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN. International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042* (2024).
- A:** Hives, Zdenko, NA62 Collaboration: *Precision Measurements and Prospects with Kaons at CERN. 16th International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2023 003* (2024).
- E:** Glioti, Alfredo and Rattazzi, Riccardo and Ricci, Lorenzo and Vecchi, Luca: *Exploring the Flavor Symmetry Landscape.* (2024). arXiv:2402.09503 [hep-ph].
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS. Nuovo Cim. C 47 86* (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- A:** Fiorenza, Renato, NA48/2, NA62 Collaboration: *Precision measurements with Kaon decays at CERN. EPJ Web Conf. 291 01003* (2024).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Exploring scalar contributions with $K^+ \rightarrow \pi^+ \ell^+ \ell^-$. Phys. Lett. B 855 138824* (2024). CERN-TH-2024-044, arXiv:2404.03643 [hep-ph].
- E:** D'Ambrosio, Giancarlo and Knecht, Marc: *Predictions for the Rare Kaon Decays $K_{S,L} \rightarrow \pi^0 \ell^+ \ell^-$ from QCD in the Limit of a Large Number of Colours. Universe 10 457* (2024). arXiv:2409.08568 [hep-ph].
- E:** D'Ambrosio, G. and Mahmoudi, F. and Neshatpour, S.: *Beyond the Standard Model prospects for kaon physics at future experiments. JHEP 02 166* (2024). CERN-TH-2023-208, arXiv:2311.04878 [hep-ph].

- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment*. *Ukr. J. Phys.* **69** 781 (2024).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 336 (2024).
- E:** Afanasev, Andrei and others: *Radiative corrections: from medium to high energy experiments*. *Eur. Phys. J. A* **60** 91 (2024). [arXiv:2306.14578 \[hep-ph\]](#).
- E:** Sieber, H. and Kirpichnikov, D. V. and Voronchikhin, I. V. and Crivelli, P. and Gninenko, S. N. and Kirsanov, M. M. and Krasnikov, N. V. and Molina-Bueno, L. and Sekatskii, S. K.: *Probing hidden sectors with a muon beam: Implication of spin-0 dark matter mediators for the muon $(g-2)$ anomaly and the validity of the Weiszäcker-Williams approach*. *Phys. Rev. D* **108** 056018 (2023). [arXiv:2305.09015 \[hep-ph\]](#).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62*. *21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023* 018 (2023).
- A:** Koval, Michal, NA62 Collaboration: *Measurement of the rare decay $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012017 (2023).
- E:** Košnik, Nejc: *Covariant flavour effects in semileptonic K and D decay*. *J. Phys. Conf. Ser.* **2446** 012010 (2023).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN*. *Phys. Atom. Nucl.* **86** 1301–1309 (2023).
- E:** Husek, Tomáš: *Radiative modes $K^+ \rightarrow \pi^+ \gamma^* \gamma^*$ and the $K^+ \rightarrow \pi^+ 4e$ decay*. *J. Phys. Conf. Ser.* **2446** 012016 (2023). LU TP 22-62, [arXiv:2211.11599 \[hep-ph\]](#).
- T:** Hodgson, Raoul: *Rare strange to down quark transitions from lattice quantum chromodynamics*. [doi:10.7488/era/3780](#) (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Fajfer, Svjetlana and Kamenik, Jernej Fesl and Korajac, Arman and Košnik, Nejc: *Correlating New Physics Effects in Semileptonic $\Delta C = 1$ and $\Delta S = 1$ Processes*. *JHEP* **07** 029 (2023). [arXiv:2305.13851 \[hep-ph\]](#).
- E:** Cirigliano, Vincenzo and Crivellin, Andreas and Hoferichter, Martin and Moulson, Matthew: *Scrutinizing CKM unitarity with a new measurement of the $K\mu_3/K\mu_2$ branching fraction*. *Phys. Lett. B* **838** 137748 (2023). INT-PUB-22-024, PSI-PR-22-28, ZU-TH 43/22, [arXiv:2208.11707 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
83. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Lepton Number and Flavor Violation in K^+ and π^0 Decays*. *Phys. Rev. Lett.* **127** 131802 (2021). [arXiv:2105.06759 \[hep-ex\]](#).
- 55 Citations:
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- E:** González, Marcela and Neill, Nicolás A.: *QCD running in lepton number violating meson and tau decays*. *Phys. Rev. D* **111** 015041 (2025). [arXiv:2309.14445 \[hep-ph\]](#).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62*. *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 445 (2025).
- E:** Coloma, Pilar and Fernández-Martínez, Enrique and López-Pavón, Jacobo and Marcano, Xabier and Naredo-Tuero, Daniel and Urrea, Salvador: *Improving the global SMEFT picture with bounds on neutrino NSI*. *JHEP* **02** 137 (2025). IFT-UAM/CSIC-24-151, FTUV-24-1025.8856, [arXiv:2411.00090 \[hep-ph\]](#).
- E:** Ablikim, Medina and others, BESIII Collaboration: *Search for the lepton number violation decay $\phi \rightarrow \pi^+ \pi^+ e^- e^-$ via $J/\psi \rightarrow \phi\eta$* . *Chin. Phys. C* **49** 043001 (2025). [arXiv:2308.05490 \[hep-ex\]](#).
- T:** Thompson, Dan: *Charged Lepton Flavour Violation and Optimised 4D Tracking at LHCb*. (2024). CERN-THESIS-2024-252.
- E:** Thomas Arun, Mathew and A. Madathil, Anirudhan: *Tri-bimaximal-Cabibbo Mixing: flavour violation in charged lepton sector*. [doi:10.31526/ACP.BSM-2023.19](#) (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN*. *8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022* 071 (2024).

- E:** Perrevoort, Ann-Kathrin, Mu3e Collaboration: *Charged lepton flavour violation - Overview of current experimental limits and future plans*. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 015 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. **Phys. Rev. D** **110** 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335 (2024).
- T:** Noël, Frederic: $\mu \rightarrow e$ conversion in nuclei: EFT description, charge densities, and pseudo-scalar decays. doi:10.48549/5476 (2024).
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays*. **Phys. Lett. B** **859** 139122 (2024). CERN-EP-2024-224, arXiv:2409.12981 [hep-ex].
- T:** Garosi, Francesco: *Present and future tools for testing the Standard Model and beyond*. (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. **Nuovo Cim. C** **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Fernández-Martínez, Enrique and Marcano, Xabier and Naredo-Tuero, Daniel: *Global lepton flavour violating constraints on new physics*. **Eur. Phys. J. C** **84** 666 (2024). IFT-UAM/CSIC-24-39, arXiv:2403.09772 [hep-ph].
- E:** Dev, P. S. B. and others: *Searches for baryon number violation in neutrino experiments: a white paper*. **J. Phys. G** **51** 033001 (2024). arXiv:2203.08771 [hep-ex].
- E:** Delzanno, Filippo and Fuyuto, Kaori and González-Solís, Sergi and Mereghetti, Emanuele: *Global analysis of $\mu \rightarrow e$ interactions in the SMEFT*. (2024). LA-UR-24-32279, arXiv:2411.13497 [hep-ph].
- E:** Darmé, Luc and Deandrea, Aldo and Mahmoudi, Farvah: *Gauge $SU(2)_f$ flavour transfers*. **JHEP** **05** 313 (2024). CERN-TH-2023-139, arXiv:2307.09595 [hep-ph].
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. **Eur. Phys. J. C** **84** 377 (2024). CERN-TH-2023-206, arXiv:2311.02923 [hep-ph].
- A:** Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN. The 10th International Workshop on Chiral Dynamics*. Proceedings of Science CD2021 050 (2024).
- T:** Álvarez García, Claudia: *Development of online pulse-finding algorithms for the Mu2e Stopping Target Monitor and an evaluation of the signal to background ratio for the Mu2e stopped-muon rate determination*. (2024). FERMILAB-THESIS-2024-28 .
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. **JINST** **18** C12018 (2023).
- E:** Thomas Arun, Mathew and A. Madathil, Anirudhan: *Tri-bimaximal-Cabibbo mixing: flavour violations in the charged lepton sector*. **Eur. Phys. J. C** **83** 484 (2023). arXiv:2301.06942 [hep-ph].
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation*. Proceedings of Science FPCP2023 018 (2023).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay*. **Phys. Lett. B** **838** 137679 (2023). CERN-EP-2022-243, arXiv:2211.04818 [hep-ex].
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN*. **Phys. Atom. Nucl.** **86** 1301–1309 (2023).
- A:** Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. **J. Phys. Conf. Ser.** **2446** 012022 (2023).
- E:** Hoferichter, Martin and Menéndez, Javier and Noël, Frederic: *Improved Limits on Lepton-Flavor-Violating Decays of Light Pseudoscalars via Spin-Dependent $\mu \rightarrow e$ Conversion in Nuclei*. **Phys. Rev. Lett.** **130** 131902 (2023). arXiv:2204.06005 [hep-ph].
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, arXiv:2311.08231 [hep-ex].
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle*. Proceedings of Science CKM2021 014 (2023). arXiv:2204.03942 [hep-ph].
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. **Rept. Prog. Phys.** **86** 016201 (2023). FERMILAB-PUB-22-057-T, arXiv:2201.07805 [hep-ph].
- E:** Garosi, Francesco and Marzocca, David and Sánchez, Antonio Rodríguez and Stanzione, Alfredo: *Indirect constraints on top quark operators from a global SMEFT analysis*. **JHEP** **12** 129 (2023). arXiv:2310.00047 [hep-ph].
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. **Eur. Phys. J. C** **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, arXiv:2305.01715 [hep-ph].

- E: Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E: Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* 50 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- E: Thomas, Arun Mathew and Lamba, Priyanka and Vempati, Sudhir K.: *Restricting q^2l^2 operators from $\pi^0 \rightarrow \mu e$* . (2022). [arXiv:2204.06948 \[hep-ph\]](#).
- E: Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull.* 77 148–151 (2022).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* 2022 083C01 (2022).
- A: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A: Minucci, Elisa and others, NA62 Collaboration: *Searches for lepton flavour and number violation in K^+ and π^0 decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021* 525 (2022).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating $K^+ \rightarrow \pi^-(\pi^0)e^+e^+$ decays*. *Phys. Lett. B* 830 137172 (2022). CERN-EP-2022-018, [arXiv:2202.00331 \[hep-ex\]](#).
- A: Swallow, Joel Christopher and others, NA62 Collaboration: *Searches for lepton flavour/number violation in K^+ and π^0 decays at the NA62 experiment*. *The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021* 130 (2022).
- A: Volpe, Roberta and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. *Particles and Nuclei International Conference 2021. Proceedings of Science PANIC2021* 426 (2022).
- A: Kholodenko, Sergei and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 066 (2022).
- E: Marzocca, David and Trifinopoulos, Sokratis and Venturini, Elena: *From B-meson anomalies to Kaon physics with scalar leptoquarks*. *Eur. Phys. J. C* 82 320 (2022). TUM-HEP-1344-21, [arXiv:2106.15630 \[hep-ph\]](#).
- E: Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E: Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- A: Duk, Viacheslav: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. *41st International Conference on High Energy physics. Proceedings of Science ICHEP2022* 705 (2022).
- E: Davidson, Sacha and Echenard, Bertrand and Bernstein, Robert H. and Heeck, Julian and Hitlin, David G.: *Charged Lepton Flavor Violation*. (2022). [arXiv:2209.00142 \[hep-ex\]](#).
- A: Corvino, Michele, NA48/2, NA62 Collaboration: *Latest results from NA62 and NA48/2 experiments*. *EPJ Web Conf.* 270 00008 (2022).
- A: Bician, Lubos: *Search for Lepton Number and Flavour Violation in K^+ and π^0 Decays*. *Nucl. Part. Phys. Proc.* 318-323 170–172 (2022).
- T: Rossia, Alejo Nahuel: *A Glance into the Future of Particle Physics with Effective Field Theories*. [doi:10.3204/PUBDB-2021-03765](#) (2021). DESY-THESIS-2021-016.
82. Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* 06 093 (2021). [arXiv:2103.15389 \[hep-ex\]](#).

312 Citations:

- E: Yue, Chong-Xing and Li, Xin-Yang and Wang, Mei-Shu-Yu and Bu, Yang-Yang: *Probing the couplings of an axionlike particle with leptons via three-lepton final state processes at future e-p colliders*. *Phys. Rev. D* 111 075015 (2025). [arXiv:2503.03179 \[hep-ph\]](#).
- E: Yamanaka, Taku: *Kaon Experiments*. *PTEP* 2025 03A106 (2025). [arXiv:2410.20721 \[hep-ex\]](#).
- E: Watanabe, Yu and Matsumoto, Shigeki and Karwin, Christopher M. and Melia, Tom and Negro, Michela and Siegert, Thomas and Watanabe, Yuki and Yoneda, Hiroki and Takahashi, Tadayuki: *Light WIMPs and MeV Gamma-ray Detection with COSI*. (2025). [arXiv:2504.11810 \[hep-ph\]](#).
- E: Vittorio, L.: *Flavour physics phenomenology in view of future experiments*. *Nuovo Cim. C* 48 94 (2025).
- E: Sun, Jin and Xing, Zhi-Peng and Yun, Seokhoon: *Probing ALP couplings to electroweak gauge bosons*. (2025). CTPU-PTC-25-03, [arXiv:2501.15250 \[hep-ph\]](#).
- E: Seto, Osamu and Shimomura, Takashi and Yoshida, Shinsuke: *New rare meson decay constraints on a light vector in $U(1)_{B-L}, U(1)_R$ and the dark photon*. (2025). EPHOU-25-006, UME-PP-029, [arXiv:2504.15896 \[hep-ph\]](#).
- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X, X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- E: Nomura, Takaaki and Yagyu, Kei: *Multi- Z' signatures of spontaneously broken local $U(1)'$ symmetry*. *Phys. Rev. D* 111 015034 (2025). OU-HET-1235, [arXiv:2407.20742 \[hep-ph\]](#).

- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62*. (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. 10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *First detection of a tagged neutrino in the NA62 experiment. Phys. Lett. B 863 139345* (2025). CERN-EP-2024-324, [arXiv:2412.04033 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio. JHEP 02 191* (2025). CERN-EP-2024-343, [arXiv:2412.12015 \[hep-ex\]](#).
- E:** Martin Camalich, Jorge and Ziegler, Robert: *Flavor phenomenology of light dark sectors. doi:10.1146/annurev-nucl-121423-100931* (2025). [arXiv:2503.17323 \[hep-ph\]](#).
- E:** Liu, Hongkai and Ohayon, Ben and Shtaif, Omer and Soreq, Yotam: *Probing new hadronic forces with heavy exotic atoms*. (2025). [arXiv:2502.03537 \[hep-ph\]](#).
- E:** Li, Jinmian and Nomura, Takaaki and Yagyu, Kei: *Multi-lepton jets from quadruple Z' via the Higgs decay at LHC. JHEP 04 145* (2025). OU-HET-1254, [arXiv:2501.17573 \[hep-ph\]](#).
- E:** Li, Song and Yang, Jin Min and Zhang, Mengchao and Zhu, Rui: *Theoretical bounds on dark Higgs mass in a self-interacting dark matter model with $U(1)'$. Phys. Rev. D 111 035005* (2025). [arXiv:2405.18226 \[hep-ph\]](#).
- E:** Fry, John and others, KOTO Collaboration: *Proposal of the KOTO II experiment*. (2025). [arXiv:2501.14827 \[hep-ex\]](#).
- E:** Ahn, J. K. and others, KOTO Collaboration: *Search for the $KL \rightarrow \pi 0 \nu \nu^-$ Decay at the J-PARC KOTO Experiment. Phys. Rev. Lett. 134 081802* (2025). [arXiv:2411.11237 \[hep-ex\]](#).
- E:** Kolay, Lipika and Nandi, Soumitra: *Flavour and Electroweak Precision Constraints on a Simplified Dark Matter Model with a Light Spin-0 Mediator*. (2025). [arXiv:2503.15609 \[hep-ph\]](#).
- E:** Kamada, Ayuki and Kuwahara, Takumi and Matsumoto, Shigeki and Watanabe, Yu and Watanabe, Yuki: *Mediator decay through mixing with degenerate spectrum. JHEP 01 043* (2025). [arXiv:2404.06793 \[hep-ph\]](#).
- E:** Jeong, Kwang Sik: *Cosmology of Higgs-coupled axions. J. Korean Phys. Soc. 86 585–594* (2025).
- E:** Jeong, Kwang Sik and Kang, Ju Hyeong and Nakagawa, Shota: *Cosmological roles of dark photons in axion-induced electroweak baryogenesis. JCAP 01 047* (2025). [arXiv:2410.12517 \[hep-ph\]](#).
- E:** Alrahman, F. Abd and others, ICARUS Collaboration: *Search for a Hidden Sector Scalar from Kaon Decay in the Dimuon Final State at ICARUS. Phys. Rev. Lett. 134 151801* (2025). FERMILAB-PUB-24-0581-PPD, [arXiv:2411.02727 \[hep-ex\]](#).
- E:** Ho, Shu-Yu and Kim, Jongkuk and Ko, Pyungwon: *Recent $B \rightarrow K + \nu \nu^-$ excess and muon $g-2$ illuminating light dark sector with Higgs portal. Phys. Rev. D 111 055029* (2025). KIAS-24003, KIAS-p24003, [arXiv:2401.10112 \[hep-ph\]](#).
- E:** Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data*. (2025). LAPTH-008/25, [arXiv:2503.05865 \[hep-ph\]](#).
- E:** Forty, Roger: *Collider experiments: the LHC and beyond. CERN Yellow Rep. School Proc. 2 197–286* (2025).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- E:** Feruglio, Ferruccio and Ziegler, Robert: *CPon Dark Matter. JHEP 03 102* (2025). TTP24-043, P3H-24-078, [arXiv:2411.08101 \[hep-ph\]](#).
- E:** Mammen Abraham, Roshan and others, FASER Collaboration: *Shining light on the dark sector: search for axion-like particles and other new physics in photonic final states with FASER. JHEP 01 199* (2025). CERN-EP-2024-262, [arXiv:2410.10363 \[hep-ex\]](#).
- E:** Ding, Kewen and Li, Ying and Liu, Xuewen and Liu, Yu and Lu, Chih-Ting and Zhu, Bin: *Resonant ALP-Portal Dark Matter Annihilation as a Solution to the $B^\pm \rightarrow K^\pm \nu \bar{\nu}$ Excess*. (2025). [arXiv:2504.00383 \[hep-ph\]](#).
- E:** Dev, P. S. Bhupal and Goswami, Srubabati and Majumdar, Chayan and Pachhar, Debashis: *Neutrinoless double beta decay from scalar leptoquarks: interplay with neutrino mass and flavor physics. JHEP 01 004* (2025). [arXiv:2407.04670 \[hep-ph\]](#).
- E:** Delaunay, Cédric and Kitahara, Teppei and Soreq, Yotam and Zupan, Jure: *Light scalar beyond the Higgs mixing limit*. (2025). [arXiv:2501.16477 \[hep-ph\]](#).
- E:** D’Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Theoretical implications for a new measurement of $K_L \rightarrow \pi^0 \ell \ell$. Phys. Rev. D 111 L011701* (2025). CERN-TH-2024-150, [arXiv:2409.06545 \[hep-ph\]](#).
- E:** Cheng, Hsin-Chia and Jiang, Xu-Hui and Li, Lingfeng: *Phenomenology of electroweak portal dark showers: high energy direct probes and low energy complementarity. JHEP 01 149* (2025). [arXiv:2408.13304 \[hep-ph\]](#).
- A:** Ceoletta, Marco, NA62 Collaboration: *Searches for Lepton Flavour and Number Violation and Hidden Sector Particles at NA62. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 133* (2025).
- E:** Calibbi, Lorenzo and Li, Tong and Mukherjee, Lopamudra and Schmidt, Michael A.: *Is Dark Matter the origin of the $B \rightarrow K \nu \bar{\nu}$ excess at Belle II?*. (2025). [arXiv:2502.04900 \[hep-ph\]](#).

- A:** Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 123* (2025).
- E:** Bhattacharjee, Biplob and Bose, Camellia and Dreiner, Herbi K. and Ghosh, Nivedita and Matsumoto, Shigeki and Sengupta, Rhitaja: *Long-lived Light Mediators in a Higgs Portal Model at the FCC-ee.* (2025). BONN-TH-2025-10, [arXiv:2503.08780 \[hep-ph\]](#).
- E:** Baruch, Chaja and Fitzpatrick, Patrick J. and Menzo, Tony and Soreq, Yotam and Trifinopoulos, Sokratis and Zupan, Jure: *Searching for exotic scalars at fusion reactors.* (2025). MIT-CTP/5816, [arXiv:2502.12314 \[hep-ph\]](#).
- E:** Bai, Yang and Chen, Ting-Kuo and Liu, Jia and Ma, Xiaolin: *Wess-Zumino-Witten Interactions of Axions.* *Phys. Rev. Lett.* **134** 081803 (2025). [arXiv:2406.11948 \[hep-ph\]](#).
- E:** Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3.* (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- A:** Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 446* (2025).
- E:** Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries.* (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- E:** Ziegler, Robert: *Flavor Probes of Axion Dark Matter. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 086* (2024). [arXiv:2303.13353 \[hep-ph\]](#).
- A:** Zamkovsky, M. and Lichard, P., NA62 Collaboration: *Constant Fraction Discriminator for NA62 experiment at CERN. JINST 19 C03002* (2024).
- E:** Yue, Chong-Xing and Li, Xin-Yang and Sun, Xiao-Chen: *Prospects for detecting the couplings of axion-like particle with neutrinos at the CEPC. Eur. Phys. J. C 84 1033* (2024). [arXiv:2404.13226 \[hep-ph\]](#).
- E:** Yin, Wen: *Feebly-Interacting Peccei-Quinn Model.* (2024). [arXiv:2412.17802 \[hep-ph\]](#).
- E:** Wanke, Rainer: *Future Experiments of Kaon Physics. EPJ Web Conf. 312 03002* (2024).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.
- E:** Takahashi, Fuminobu and Yin, Wen: *Hadrophobic axion from a GUT. Phys. Rev. D 109 035024* (2024). TU-1179, [arXiv:2301.10757 \[hep-ph\]](#).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN. Acta Phys. Polon. Supp. 17 6–A18* (2024).
- E:** Smith, Tyler B. and Tait, Tim M. P.: *Conserved Currents are Not Anomaly-Safe.* (2024). UCI-HEP-TR-2023-12, [arXiv:2401.02483 \[hep-ph\]](#).
- E:** Shoji, Yutaro and Kuflik, Eric and Birnboim, Yuval and Stone, Nicholas C.: *Heating galaxy clusters with interacting dark matter. Mon. Not. Roy. Astron. Soc. 528 4082–4091* (2024). [arXiv:2306.08679 \[astro-ph.CO\]](#).
- E:** Shan, Lianyou and Wang, Lei and Yang, Jin Min and Zhu, Rui: *Probing a light long-lived pseudo-scalar from Higgs decay via displaced taus at the LHC. JHEP 10 193* (2024). [arXiv:2408.07366 \[hep-ph\]](#).
- A:** Schubert, Jonathan Leon, NA62 Collaboration: *New results for searches of exotic decays with NA62 in beam dump mode. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 045* (2024).
- E:** Schacht, Stefan and Soni, Amarjit: *Rare K decays off and on the lattice. The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023 238* (2024). [arXiv:2312.05527 \[hep-ph\]](#).
- T:** Ruiz Fernandez, Ramon Angel: *Inside the Precision Era: Exploring New Physics through Quark Flavor Transitions at LHCb.* (2024). CERN-THESIS-2024-204.
- T:** Ruiz Fernandez, Ramon Angel: *Inside the Precision Era: Exploring New Physics through Quark Flavor Transitions at LHCb.* (2024). CERN-THESIS-2024-204.
- E:** Roy, Arnab and Valencia, German: *High- p_T LHC constraints on SMEFT operators affecting rare kaon and hyperon decays.* (2024). [arXiv:2410.05859 \[hep-ph\]](#).
- T:** Rostagni, Guillaume: *Effective Operators and Long-Range Forces for Dark Matter.* (2024).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode. Nuovo Cim. C 47 91* (2024).
- A:** Romano, Angela: *Status and Prospects of $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO. 20th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2023 050* (2024).
- E:** Rashed, Ahmed: *Constraints on Dark Photon and Dark Z Model Parameters in the B and K Meson Decays.* (2024). [arXiv:2412.11438 \[hep-ph\]](#).
- T:** Putnam, Gray Louis Campbell: *Search for New Physics through a Long-Lived Di-Muon Resonance in the NuMI Beam with the ICARUS Detector. doi:10.6082/uchicago.12316* (2024). FERMILAB-THESIS-2024-23 .
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays. EPJ Web Conf. 312 03001* (2024).
- E:** Plestid, Ryan and Wise, Mark B.: *Final state interactions for high energy scattering off atomic electrons. Phys. Rev. D 110 113007* (2024). CALT-TH/2024-026, [arXiv:2407.21752 \[hep-ph\]](#).

- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries.* Proceedings of Science DISCRETE2022 071 (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Precision measurements with Kaons at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries.* Proceedings of Science DISCRETE2022 070 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* **Phys. Rev. D** **110** 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment.* The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335 (2024).
- E:** Nishimura, Satsuki and Miyao, Coh and Otsuka, Hajime: *Reinforcement learning-based statistical search strategy for an axion model from flavor.* (2024). KYUSHU-HET-296, arXiv:2409.10023 [hep-ph].
- T:** Nguyen, Rachel: *Searching for the dark sector: New probes at current and future experiments.* (2024).
- E:** Neshatpour, Siavash and D'Ambrosio, Giancarlo and Iyer, Abhishek and Mahmoudi, Farvah: *Kaon rare decays: theory overview.* Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 026 (2024). CERN-TH-2024-034.
- E:** Neshatpour, Siavash: *Short-Distance Physics with Rare Kaon Decays.* **Symmetry** **16** 946 (2024).
- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN. XVIII International Conference on Topics in Astroparticle and Underground Physics.* Proceedings of Science TAUP2023 040 (2024).
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays.* **Phys. Lett. B** **859** 139122 (2024). CERN-EP-2024-224, arXiv:2409.12981 [hep-ex].
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+ \gamma \gamma$ decay.* **Phys. Lett. B** **850** 138513 (2024). CERN-EP-2023-247, arXiv:2311.01837 [hep-ex].
- A:** Bethani, Agni and others, NA62 Collaboration: *Development of a new CEDAR for kaon identification at the NA62 experiment at CERN.* **JINST** **19** P05005 (2024). CERN-EP-2023-302, arXiv:2312.17188 [hep-ex].
- E:** Meinel, Stefan: *Quark flavor physics with lattice QCD. The 40th International Symposium on Lattice Field Theory.* Proceedings of Science LATTICE2023 126 (2024). arXiv:2401.08006 [hep-lat].
- E:** McKeen, David and Ng, John N. and Tuckler, Douglas: *Higgs portal interpretation of the Belle II $B \rightarrow K \nu \nu$ measurement.* **Phys. Rev. D** **109** 075006 (2024). arXiv:2312.00982 [hep-ph].
- T:** Marzocca, David and Nardecchia, Marco and Stanzione, Alfredo and Toni, Claudio: *Implications of $B \rightarrow K \nu \bar{\nu}$ under rank-one flavor violation hypothesis.* **Eur. Phys. J. C** **84** 1217 (2024). arXiv:2404.06533 [hep-ph].
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE.* Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 027 (2024).
- T:** Machado Rodríguez, Jonathan-Gilbert: *Journey through the ALPs.* (2024).
- E:** Lunghi, Enrico and Soni, Amarjit: *Light quark loops in $K^\pm \rightarrow \pi^\pm \nu \bar{\nu}$ from vector meson dominance and update on the Kaon Unitarity Triangle.* **JHEP** **12** 097 (2024). arXiv:2408.11190 [hep-ph].
- E:** Liu, Wei and Wang, Lei and Zhang, Yu: *Direct production of light scalars in the type-I two-Higgs-doublet model at the lifetime frontier of the LHC.* **Phys. Rev. D** **110** 015016 (2024). arXiv:2403.16623 [hep-ph].
- A:** Kleimenova, Alina, GigaTracKer Working Group Collaboration: *Operation and performance of the NA62 GigaTracker.* The 32nd International Workshop on Vertex Detectors. Proceedings of Science VERTEX2023 008 (2024).
- E:** Klangburam, Tanech and Pongkitivanichkul, Chakrit: *Bounds on ALP-mediated dark matter models from celestial objects.* **JHEP** **10** 145 (2024). arXiv:2311.15681 [hep-ph].
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN.* International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042 (2024).
- E:** Hou, Biao-Feng and Li, Xin-Qiang and Shen, Meng and Yang, Ya-Dong and Yuan, Xing-Bo: *Deciphering the Belle II data on $B \rightarrow K \nu \bar{\nu}$ decay in the (dark) SMEFT with minimal flavour violation.* **JHEP** **06** 172 (2024). arXiv:2402.19208 [hep-ph].
- E:** Hoid, Bai-Long and Hoferichter, Martin and de Elvira, Jacobo Ruiz: *Comparing phenomenological estimates of dilepton decays of pseudoscalar mesons with lattice QCD.* The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023 244 (2024). arXiv:2312.00520 [hep-lat].
- E:** Hoferichter, Martin and Hoid, Bai-Long and de Elvira, Jacobo Ruiz: *Improved Standard-Model prediction for $K_L \rightarrow \ell^+ \ell^-$.* **JHEP** **04** 071 (2024). IPARCOS-UCM-23-089, arXiv:2310.17689 [hep-ph].
- E:** Harigaya, Keisuke and Wang, Isaac R.: *ALP-assisted strong first-order electroweak phase transition and baryogenesis.* **JHEP** **04** 108 (2024). arXiv:2309.00587 [hep-ph].
- E:** Gustafson, R. Andrew and Plestid, Ryan and Shoemaker, Ian M. and Zhou, Albert: *Long-lived particles and the quiet Sun.* **Phys. Rev. D** **109** 015020 (2024). CALT-TH/2023-023, arXiv:2307.01856 [hep-ph].
- E:** Greljo, Admir and Thomsen, Anders Eller: *Rising through the ranks: flavor hierarchies from a gauged $SU(2)$ symmetry.* **Eur. Phys. J. C** **84** 213 (2024). arXiv:2309.11547 [hep-ph].

- E:** Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *$K \rightarrow \pi\nu\bar{\nu}$ spectra and NA62 interpretation.* (2024). [arXiv:2405.10905 \[hep-ph\]](#).
- E:** Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+\nu\bar{\nu}$ distributions.* *Eur. Phys. J. C* **84** 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- E:** Girmohanta, Sudhakantha and Nakai, Yuichiro and Shigekami, Yoshihiro and Tobioka, Kohsaku: *Light dilaton in rare meson decays and extraction of its CP property.* *JHEP* **01** 153 (2024). KEK-TH-2569, [arXiv:2310.16882 \[hep-ph\]](#).
- E:** Ghosh, Dilip Kumar and Ghoshal, Anish and Jeesun, Sk: *Axion-like particle (ALP) portal freeze-in dark matter confronting ALP search experiments.* *JHEP* **01** 026 (2024). [arXiv:2305.09188 \[hep-ph\]](#).
- T:** Garosi, Francesco: *Present and future tools for testing the Standard Model and beyond.* (2024).
- E:** Fridell, Kåre: *Leptogenesis and neutrino mass with scalar leptoquarks.* (2024). KEK-TH-2665, [arXiv:2411.03282 \[hep-ph\]](#).
- T:** Fraser, Katherine: *Probing Undiscovered Particles with Theory and Data-Driven Tools.* (2024).
- E:** Forbes, Diana and Kahn, Yonatan and Nguyen, Rachel: *Exotic particles at the DUNE near detector from charged pion scattering.* *Phys. Rev. D* **110** 095029 (2024). [arXiv:2407.14648 \[hep-ph\]](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS.* *Nuovo Cim. C* **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- A:** Fiorenza, Renato, NA48/2, NA62 Collaboration: *Precision measurements with Kaon decays at CERN.* *EPJ Web Conf.* **291** 01003 (2024).
- E:** Ferber, Torben and Grohsjean, Alexander and Kahlhoefer, Felix: *Dark Higgs bosons at colliders.* *Prog. Part. Nucl. Phys.* **136** 104105 (2024). P3H-23-034, TTP23-018, [arXiv:2305.16169 \[hep-ph\]](#).
- E:** Erdelyi, Barbara Anna and Gröber, Ramona and Selimovic, Nudzeim: *How large can the Light Quark Yukawa couplings be?.* (2024). [arXiv:2410.08272 \[hep-ph\]](#).
- E:** Ema, Yohei and Liu, Zhen and Plestid, Ryan: *Searching for axions with kaon decay at rest.* *Phys. Rev. D* **109** L031702 (2024). UMN-TH-4221/23, FTPI-MINN-23-13, CALT-TH/2023-028, [arXiv:2308.08589 \[hep-ph\]](#).
- E:** Eguren, Jordi Folch and Klingel, Sophie and Stamou, Emmanuel and Tabet, Mustafa and Ziegler, Robert: *Flavor phenomenology of light dark vectors.* *JHEP* **08** 111 (2024). [arXiv:2405.00108 \[hep-ph\]](#).
- T:** Ecker, Patrick: *Search for a dark Higgs boson produced in association with inelastic dark matter at the Belle II experiment.* (2024).
- E:** Dutta, Bhaskar and Karthikeyan, Aparajitha and Kim, Doojin: *Longer-lived mediators from charged mesons and photons at neutrino experiments.* *Phys. Rev. D* **109** 075029 (2024). MI-HET-809, [arXiv:2308.01491 \[hep-ph\]](#).
- E:** Dunsky, David I. and Hall, Lawrence J. and Harigaya, Keisuke: *A heavy QCD axion and the mirror world.* *JHEP* **02** 212 (2024). [arXiv:2302.04274 \[hep-ph\]](#).
- E:** Davighi, Joe and Gosnay, Alastair and Miller, David J. and Renner, Sophie: *Phenomenology of a Deconstructed Electroweak Force.* *JHEP* **05** 085 (2024). CERN-TH-2023-246, [arXiv:2312.13346 \[hep-ph\]](#).
- E:** Datta, Alakabha and Marfatia, Danny and Mukherjee, Lopamudra: *$B \rightarrow K\nu\nu^-$, MiniBooNE and muon $g-2$ anomalies from a dark sector.* *Phys. Rev. D* **109** L031701 (2024). [arXiv:2310.15136 \[hep-ph\]](#).
- E:** Darmé, Luc and Deandrea, Aldo and Mahmoudi, Farvah: *Gauge $SU(2)_f$ flavour transfers.* *JHEP* **05** 313 (2024). CERN-TH-2023-139, [arXiv:2307.09595 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Exploring scalar contributions with $K^+ \rightarrow \pi^+\ell^+\ell^-$.* *Phys. Lett. B* **855** 138824 (2024). CERN-TH-2024-044, [arXiv:2404.03643 \[hep-ph\]](#).
- E:** D'Ambrosio, Giancarlo and Knecht, Marc: *Predictions for the Rare Kaon Decays $KS,L \rightarrow \pi^0\ell^+\ell$ from QCD in the Limit of a Large Number of Colours.* *Universe* **10** 457 (2024). [arXiv:2409.08568 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Mahmoudi, F. and Neshatpour, S.: *Beyond the Standard Model prospects for kaon physics at future experiments.* *JHEP* **02** 166 (2024). CERN-TH-2023-208, [arXiv:2311.04878 \[hep-ph\]](#).
- E:** Dai, Guo-Qiang and Yue, Chong-Xing and Bu, Yang-Yang and Wang, Yi-Hang: *Light axion-like particles and the pseudoscalar mesonic decays.* *Commun. Theor. Phys.* **76** 095202 (2024).
- E:** Curtin, David and Grewal, Jaipratap Singh: *Long Lived Particle Decays in MATHUSLA.* *Phys. Rev. D* **109** 075017 (2024). [arXiv:2308.05860 \[hep-ph\]](#).
- E:** Cox, Peter and Dolan, Matthew J. and Wood, Joshua: *New Limits on Light Dark Matter-Nucleon Scattering.* (2024). [arXiv:2408.12144 \[hep-ph\]](#).
- E:** Cox, Peter and Dolan, Matthew J. and Hayat, Maaz and Thamm, Andrea and Volkas, Raymond R.: *Classification of three-family flavoured DFSZ axion models that have no domain wall problem.* *JHEP* **02** 011 (2024). [arXiv:2310.16348 \[hep-ph\]](#).
- E:** Cox, Peter and Dolan, Matthew J. and Wood, Joshua: *Absorption of fermionic dark matter via the scalar portal.* *Phys. Rev. D* **109** 095013 (2024). [arXiv:2308.00309 \[hep-ph\]](#).

- E:** Cornella, Claudia and Galda, Anne Mareike and Neubert, Matthias and Wyler, Daniel: $K^\pm \rightarrow \pi^\pm a$ at next-to-leading order in chiral perturbation theory and updated bounds on ALP couplings. *JHEP* **06** 029 (2024). [arXiv:2308.16903 \[hep-ph\]](#).
- E:** Coloma, Pilar and Martín-Albo, Justo and Urrea, Salvador: *Discovering long-lived particles at DUNE*. *Phys. Rev. D* **109** 035013 (2024). IFT-UAM/CSIC-23-111, IFIC/23-40, FTUV-23-0823.4331, [arXiv:2309.06492 \[hep-ph\]](#).
- E:** Chun, Eung Jin and Jyoti Das, Suruj and He, Minxi and Jung, Tae Hyun and Sun, Jin: *Cogenesis by a sliding pNGB with symmetry non-restoration*. (2024). CTPU-PTC-24-16, [arXiv:2406.04180 \[hep-ph\]](#).
- E:** Cheung, Kingman and Kim, Yongkyu and Kwon, Youngjoon and Ouseph, C. J. and Soffer, Abner and Wang, Zeren Simon: *Probing dark photons from a light scalar at Belle II*. *JHEP* **05** 094 (2024). [arXiv:2401.03168 \[hep-ph\]](#).
- E:** Chen, Chuan-Hung and Chiang, Cheng-Wei: *Flavor anomalies in leptoquark model with gauged $U(1)_{L\mu-L\tau}$* . *Phys. Rev. D* **109** 075004 (2024). [arXiv:2309.12904 \[hep-ph\]](#).
- E:** Capdevila, Bernat and Crivellin, Andreas and Lizana, Javier M. and Pokorski, Stefan: *$SU(2)_L$ deconstruction and flavour (non)-universality*. *JHEP* **08** 031 (2024). ZU-TH 02/24, IFT-UAM/CSIC-23-162, IFT-UAM/CSIC-23-85, [arXiv:2401.00848 \[hep-ph\]](#).
- E:** Calibbi, Lorenzo and Li, Tong and Mukherjee, Lopamudra and Yang, Yiming: *Probing ALP lepton flavor violation at μ TRISTAN*. *Phys. Rev. D* **110** 115009 (2024). [arXiv:2406.13234 \[hep-ph\]](#).
- E:** Buras, Andrzej J. and Harz, Julia and Mojahed, Martin A.: *Disentangling new physics in $K \rightarrow \pi\nu\bar{\nu}$ and $B \rightarrow K(K^*)\nu\bar{\nu}$ observables*. *JHEP* **10** 087 (2024). MITP-24-049, AJB-24-1, [arXiv:2405.06742 \[hep-ph\]](#).
- E:** Bonilla, J. and Gavela, B. and Machado-Rodríguez, J.: *Limits on ALP-neutrino couplings from loop-level processes*. *Phys. Rev. D* **109** 055023 (2024). IFT-UAM/CSIC-23-121, [arXiv:2309.15910 \[hep-ph\]](#).
- E:** Bolton, Patrick D. and Fajfer, Svjetlana and Kamenik, Jernej F. and Novoa-Brunet, Martín: *Signatures of light new particles in $B \rightarrow K(*)E_{miss}$* . *Phys. Rev. D* **110** 055001 (2024). [Erratum: *Phys.Rev.D* 111, 039903 (2025)], [arXiv:2403.13887 \[hep-ph\]](#).
- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment*. *Ukr. J. Phys.* **69** 781 (2024).
- E:** Blasi, Simone and Calibbi, Lorenzo and Mariotti, Alberto and Turbang, Kevin: *Gravitational waves from cosmic strings in Froggatt-Nielsen flavour models*. (2024). DESY-24-147, DESY-24-147, [arXiv:2410.08668 \[hep-ph\]](#).
- E:** Blanco, Carlos and Harris, Ian and Kahn, Yonatan and Prabhu, Anirudh: *Constraining dark matter-proton scattering from molecular cloud ionization*. *Phys. Rev. D* **110** 035006 (2024). [arXiv:2311.00740 \[hep-ph\]](#).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 336 (2024).
- E:** Bittar, Pedro and Burdman, Gustavo and Salla, Gabriel M.: *Spontaneous breaking of baryon number, baryogenesis and the bajoron*. (2024). [arXiv:2410.00964 \[hep-ph\]](#).
- E:** Biswas, Tisa: *Probing the interactions of axion-like particles with electroweak bosons and the Higgs boson in the high energy regime at LHC*. *JHEP* **05** 081 (2024). [arXiv:2312.05992 \[hep-ph\]](#).
- E:** Berger, Joshua and Putnam, Gray: *Sensitivity to kaon decays to ALPs at fixed target experiments*. *Phys. Rev. D* **110** 055035 (2024). [Erratum: *Phys.Rev.D* 111, 059903 (2025)], [arXiv:2405.18480 \[hep-ph\]](#).
- E:** Berbig, Maximilian: *Diraxiogenesis*. *JHEP* **01** 061 (2024). [arXiv:2307.14121 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* **10** 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Bao, Shou-shan and Gao, Wenhai and Zhang, Hong and Zhou, Jian: *Constraining axion-gluon coupling in mono-hadron processes*. *Phys. Rev. D* **110** 055008 (2024). [arXiv:2405.18215 \[hep-ph\]](#).
- E:** Baker, Christopher G. and Bowen, Warwick P. and Cox, Peter and Dolan, Matthew J. and Goryachev, Maxim and Harris, Glen: *Optomechanical dark matter instrument for direct detection*. *Phys. Rev. D* **110** 043005 (2024). [arXiv:2306.09726 \[hep-ph\]](#).
- E:** Asai, Kento and Miyao, Coh and Okawa, Shohei and Tsumura, Koji: *New constraints on gauged $U(1)_{L\mu-L\tau}$ models via $Z - Z$ mixing*. *JHEP* **12** 018 (2024). KYUSHU-HET-280, KEK-TH-2597, [arXiv:2401.17613 \[hep-ph\]](#).
- T:** Armando, Giovanni: *Dark Matter Phenomenology Across Scales: From Ultralight to WIMPs*. (2024).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E:** Altmannshofer, Wolfgang: *TASI 2022 lectures on flavor physics*. *2022 Theoretical Advanced Study Institute in Particle Theory. Proceedings of Science TASI2022* 001 (2024).
- T:** Allwicher, Lukas: *Investigating Flavourful New Physics at the TeV Scale*. [doi:10.5167/uzh-258700](#) (2024).
- E:** Allwicher, Lukas and Cornella, Claudia and Isidori, Gino and Stefanek, Ben A.: *New physics in the third generation. A comprehensive SMEFT analysis and future prospects*. *JHEP* **03** 049 (2024). ZU-TH 71/23, MITP-23-060, KCL-PH-TH/2023-59, [arXiv:2311.00020 \[hep-ph\]](#).
- E:** Ahn, Y. H.: *Neutrino Mass Origin and Flavored-QCD axion in an Extra-Dimension*. (2024). [arXiv:2408.10632 \[hep-ph\]](#).

- E:** Aghaie, Mohammad and Armando, Giovanni and Conaci, Angela and Dondarini, Alessandro and Matak, Peter and Panci, Paolo and Sinska, Zuzana and Ziegler, Robert: *Axion dark matter from heavy quarks*. *Phys. Lett. B* 856 138923 (2024). [arXiv:2404.12199 \[hep-ph\]](#).
- E:** Adhikary, Amit and Bharucha, Aoife and Feligioni, Lorenzo and Frigerio, Michele: *Prospects for sub-EW ALP searches via $\gamma + b\bar{b}$ signatures at the LHC using jet substructure techniques*. (2024). [arXiv:2410.09033 \[hep-ph\]](#).
- E:** Abdughani, Murat and Reyimuaji, Yakefu: *Constraining light dark matter and mediator with $B^+ \rightarrow K + \nu\nu^-$ data*. *Phys. Rev. D* 110 055013 (2024). [arXiv:2309.03706 \[hep-ph\]](#).
- T:** Wang, Ruoquan Isaac: *Electroweak (-Like) Phase Transitions: Baryogenesis, Strong CP, and Light Particles*. (2023).
- E:** Wang, Xuan-Gong and Thomas, A. W.: *Dark photon effect on the rare kaon decay*. *J. Phys. G* 50 085001 (2023). ADP-23-01/T1210, [arXiv:2301.08367 \[hep-ph\]](#).
- T:** Verma, Sonali: *New Physics Ideas from Strongly Coupled Theories*. (2023).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. *JINST* 18 C12018 (2023).
- T:** Shain Poruvelil, Sachin: *Aspects of strong and new CP violation*. (2023).
- E:** Sevier, Martin and Baker, Michael and Bignell, Lindsey and Curceanu, Catalina and Dowie, Jackson T. H. and Kibédi, Tibor and Jamieson, David and Stuchbery, Andrew and Thamm, Andrea and White, Martin: *A Time Projection Chamber to Search for Feebly Interacting Bosons via Proton Induced Nuclear Reactions*. (2023). [arXiv:2302.13281 \[hep-ex\]](#).
- T:** Schnubel, Marvin: *Two applications of effective field theory: factorisation of $gg \rightarrow h$ in SCET & flavour physics of ALPs*. [doi:10.25358/openscience-9558](#) (2023).
- E:** Schacht, Stefan: *Kaon Decays beyond the Standard Model*. (2023). [arXiv:2305.06267 \[hep-ph\]](#).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- E:** Rigolin, Stefano and Mario Guerrero, Alfredo Walter: *Meson decays in invisible ALP. Corfu Summer Institute 2022 "School and Workshops on Elementary Particle Physics and Gravity"*. *Proceedings of Science CORFU2022 043* (2023).
- T:** Rai, Mudit: *An enquiry into dark matter physics*. (2023).
- A:** Piccini, Mauro, NA62 Collaboration: *Measurement of the radiative decay $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ at the NA62 experiment*. *J. Phys. Conf. Ser.* 2446 012015 (2023).
- E:** Panci, Paolo and Redigolo, Diego and Schwetz, Thomas and Ziegler, Robert: *Axion dark matter from lepton flavor-violating decays*. *Phys. Lett. B* 841 137919 (2023). [arXiv:2209.03371 \[hep-ph\]](#).
- E:** Novoa-Brunet, Martín: *Connecting $b \rightarrow s\ell\ell$ with $b \rightarrow s\nu\bar{\nu}$ and $b \rightarrow d\nu\bar{\nu}$* . *J. Phys. Conf. Ser.* 2446 012004 (2023).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Improved calorimetric particle identification in NA62 using machine learning techniques*. *JHEP* 11 138 (2023). CERN-EP-2023-066, [arXiv:2304.10580 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays into the $\pi^+ e^+ e^- e^+ e^-$ final state*. *Phys. Lett. B* 846 138193 (2023). CERN-EP-2023-133, [arXiv:2307.04579 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A study of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay*. *JHEP* 09 040 (2023). CERN-EP-2023-069, [arXiv:2304.12271 \[hep-ex\]](#).
- A:** Panichi, I. and others, NA62 Collaboration: *High level performance of the NA62 RICH detector*. *Nucl. Instrum. Meth. A* 1045 167583 (2023).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Performance of the NA62 trigger system*. *JHEP* 03 122 (2023). CERN-EP-2022-165, [arXiv:2208.00897 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay*. *Phys. Lett. B* 838 137679 (2023). CERN-EP-2022-243, [arXiv:2211.04818 \[hep-ex\]](#).
- E:** Moulson, Matthew, HIKE Collaboration: *HIKE: High Intensity Kaon Experiments at the CERN SPS*. *J. Phys. Conf. Ser.* 2446 012036 (2023). [arXiv:2212.00498 \[hep-ex\]](#).
- T:** Monti-Guarnieri, Pietro: *Beamtest characterization of oriented crystals for the KLEVER Small Angle Calorimeter*. (2023). CERN-THESIS-2023-011.
- E:** Marchevski, Radoslav: *First thought on a high-intensity KS experiment*. *J. Phys. Conf. Ser.* 2446 012035 (2023). [arXiv:2301.06801 \[hep-ex\]](#).
- A:** Lurkin, Nicolas, NA62, NA48/2 Collaboration: *Latest Results from Kaon Experiments at CERN*. *Acta Phys. Polon. Supp.* 16 8–A14 (2023).
- E:** Lizana, Javier M. and Matias, Joaquim and Stefanek, Ben A.: *Explaining the $B_{d,s} \rightarrow K^{(*)} \bar{K}^{(*)}$ non-leptonic puzzle and charged-current B-anomalies via scalar leptoquarks*. *JHEP* 09 114 (2023). ZU-TH 25/23, [arXiv:2306.09178 \[hep-ph\]](#).
- E:** Kumar, Girish: *Kaon processes in general 2HDM*. *J. Phys. Conf. Ser.* 2446 012005 (2023). [arXiv:2211.02276 \[hep-ph\]](#).
- E:** Košnik, Nejc: *Covariant flavour effects in semileptonic K and D decay*. *J. Phys. Conf. Ser.* 2446 012010 (2023).

- E:** Kling, Felix and Li, Shuailong and Song, Huayang and Su, Shufang and Su, Wei: *Light Scalars at FASER*. *JHEP* **08 001** (2023). [arXiv:2212.06186 \[hep-ph\]](#).
- E:** Kim, C. S. and Rosiek, Janusz and Sahoo, Dibyakrupa: *Probing the non-standard neutrino interactions using quantum statistics*. *Eur. Phys. J. C* **83 221** (2023). [arXiv:2209.10110 \[hep-ph\]](#).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN*. *Phys. Atom. Nucl.* **86 1301–1309** (2023).
- E:** Kanemura, Shinya and Mura, Yushi: *Electroweak baryogenesis via top-charm mixing*. *JHEP* **09 153** (2023). [OU-HET-1174, arXiv:2303.11252 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.
- A:** Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446 012022** (2023).
- A:** Jerhot, Jan, NA62 Collaboration: *New results for searches of exotic decays with NA62 in beam-dump mode*. *21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 073* (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** He, Xiao-Gang and Ma, Xiao-Dong and Valencia, German: *FCNC B and K meson decays with light bosonic Dark Matter*. *JHEP* **03 037** (2023). [arXiv:2209.05223 \[hep-ph\]](#).
- E:** Harigaya, Keisuke and Wang, Isaac R.: *Baryogenesis in a parity solution to the strong CP problem*. *JHEP* **11 189** (2023). [arXiv:2210.16207 \[hep-ph\]](#).
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *ALP Production in Weak Mesonic Decays*. *Fortsch. Phys.* **71 2200192** (2023). [arXiv:2211.08343 \[hep-ph\]](#).
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle. Proceedings of Science CKM2021 014* (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86 016201** (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Gligorov, Vladimir V.: *Quark flavor physics: Status and future prospects*. *Int. J. Mod. Phys. A* **38 2330009** (2023). [arXiv:2306.12728 \[hep-ph\]](#).
- E:** Giraldo, Yithsbey and Martínez, R. and Rojas, Eduardo and Salazar, Juan C.: *A minimal axion model for mass matrices with five texture-zeros*. *Eur. Phys. J. C* **83 638** (2023). [arXiv:2304.07406 \[hep-ph\]](#).
- E:** Garosi, Francesco and Marzocca, David and Sánchez, Antonio Rodríguez and Stanzione, Alfredo: *Indirect constraints on top quark operators from a global SMEFT analysis*. *JHEP* **12 129** (2023). [arXiv:2310.00047 \[hep-ph\]](#).
- E:** Fu, Dawei and Ruzi, Alim and Li, Qiang and Lu, Meng: *New methods to achieve meson, muon and gamma light sources through asymmetric electron positron collisions*. *Int. J. Mod. Phys. A* **38 2350033** (2023). [arXiv:2211.05240 \[hep-ph\]](#).
- E:** Fitzpatrick, Patrick J. and Hochberg, Yonit and Kuflik, Eric and Ovidia, Rotem and Soreq, Yotam: *Dark matter through the axion-gluon portal*. *Phys. Rev. D* **108 075003** (2023). [arXiv:2306.03128 \[hep-ph\]](#).
- E:** Ferber, Torben and Filimonova, Anastasiia and Schäfer, Ruth and Westhoff, Susanne: *Displaced or invisible? ALPs from B decays at Belle II*. *JHEP* **04 131** (2023). P3H-22-005, Nikhef 2022-001, [arXiv:2201.06580 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC*. *J. Phys. G* **50 030501** (2023). UCI-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Fajfer, Svjetlana and Kamenik, Jernej Feseli and Korajac, Arman and Košnik, Nejc: *Correlating New Physics Effects in Semileptonic $\Delta C = 1$ and $\Delta S = 1$ Processes*. *JHEP* **07 029** (2023). [arXiv:2305.13851 \[hep-ph\]](#).
- E:** Esser, Fabian and Madigan, Maeve and Sanz, Veronica and Ubiali, Maria: *On the coupling of axion-like particles to the top quark*. *JHEP* **09 063** (2023). [arXiv:2303.17634 \[hep-ph\]](#).
- E:** Elor, Gilly and McGehee, Robert and Pierce, Aaron: *Maximizing Direct Detection with Highly Interactive Particle Relic Dark Matter*. *Phys. Rev. Lett.* **130 031803** (2023). LCTP-21-26, MITP-21-044, [arXiv:2112.03920 \[hep-ph\]](#).
- A:** Duk, V. and others: *Particle identification with the NA62 RICH detector*. *Nucl. Instrum. Meth. A* **1057 168689** (2023).
- T:** Dreyer, Sascha Simon: *Search for a long-lived spin-0 particle in $b \rightarrow s$ quark transitions at the Belle II experiment*. (2023).
- E:** Delaunay, Cédric and Karr, Jean-Philippe and Kitahara, Teppei and Koelemeij, Jeroen C. J. and Soreq, Yotam and Zupan, Jure: *Self-Consistent Extraction of Spectroscopic Bounds on Light New Physics*. *Phys. Rev. Lett.* **130 121801** (2023). [Erratum: *Phys.Rev.Lett.* **134**, 119901 (2025)]LAPTH-063/22, CERN-TH-2022-158, KEK-TH-2454, [arXiv:2210.10056 \[hep-ph\]](#).
- E:** Datta, Alakabha and Hammad, A. and Marfatia, Danny and Mukherjee, Lopamudra and Rashed, Ahmed: *Dark photon and dark Z mediated B meson decays*. *JHEP* **03 108** (2023). [arXiv:2210.15662 \[hep-ph\]](#).

- E:** Csaki, Csaba and Ismail, Ameen and Ruhdorfer, Maximilian and Tooby-Smith, Joseph: *Higgs squared*. *JHEP* **04** 082 (2023). [arXiv:2210.02456 \[hep-ph\]](#).
- E:** Crivellin, Andreas and Kirk, Matthew and Kitahara, Teppei and Mescia, Federico: *Global fit of modified quark couplings to EW gauge bosons and vector-like quarks in light of the Cabibbo angle anomaly*. *JHEP* **03** 234 (2023). PSI-PR-22-37, ZU-TH-61/22, KEK-TH-2480, [arXiv:2212.06862 \[hep-ph\]](#).
- T:** Costa, Marco: *Charting Dark Matter interactions*. doi:10.25429/costa-marco%5Fphd2023-09-15 (2023).
- E:** Costa, Marco and Mishra, Rashmish K. and Verma, Sonali: *Model agnostic probes of dark sectors at neutrino experiments*. *Phys. Rev. D* **108** 035041 (2023). [arXiv:2211.13253 \[hep-ph\]](#).
- E:** Co, Raymond T. and Kumar, Soubhik and Liu, Zhen: *Searches for heavy QCD axions via dimuon final states*. *JHEP* **02** 111 (2023). UMN-TH-4201/22, FTPI-MINN-22/25, [arXiv:2210.02462 \[hep-ph\]](#).
- A:** Brizioli, Francesco, NA62 Collaboration: *Measurement of the very rare $K^+\pi^+\nu\bar{\nu}$ decay at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012002 (2023).
- A:** Bremer, Johan and Bryman, Douglas and Danielsson, Hans and Falaleev, Valeri and Koettig, Torsten and Kurchaninov, Leonid and Liberadzka-Porret, Joanna and Onufrena, Aleksandra and Velghe, Bob: *NA62 liquid krypton purity monitor*. *Nucl. Instrum. Meth. A* **1057** 168764 (2023). [arXiv:2210.16232 \[physics.ins-det\]](#).
- E:** Bordes, José and Chan, Hong-Mo and Tsun, Tsou Sheung: *Search for new physics in semileptonic decays of K and B as implied by the $g-2$ anomaly in FSM*. *Int. J. Mod. Phys. A* **38** 2350177 (2023). [arXiv:2311.06915 \[hep-ph\]](#).
- T:** Bonilla García, Jesús: *Raiders of the Lost ALP*. (2023).
- A:** Bizzeti, Andrea: *Recent results from the NA62 and NA48/2 experiments at CERN*. *Nucl. Part. Phys. Proc.* **324-329** 113–118 (2023).
- E:** Binder, Tobias and Chakraborti, Sreemanti and Matsumoto, Shigeki and Watanabe, Yu: *A global analysis of resonance-enhanced light scalar dark matter*. *JHEP* **01** 106 (2023). LAPTH-029/22, [arXiv:2205.10149 \[hep-ph\]](#).
- E:** Biggio, Carla and Calibbi, Lorenzo and Ota, Toshihiko and Zanchini, Samuele: *Majoron dark matter from a type II seesaw model*. *Phys. Rev. D* **108** 115003 (2023).
- E:** Biggio, Carla and Calibbi, Lorenzo and Ota, Toshihiko and Zanchini, Samuele: *Majoron dark matter from a type II seesaw model*. *Phys. Rev. D* **108** 115003 (2023). IFT-UAM/CSIC-23-45, [arXiv:2304.12527 \[hep-ph\]](#).
- E:** Bhattiprolu, Prudhvi N. and Elor, Gilly and McGehee, Robert and Pierce, Aaron: *Freezing-in hadrophilic dark matter at low reheating temperatures*. *JHEP* **01** 128 (2023). LCTP-22-13, MITP-22-085, [arXiv:2210.15653 \[hep-ph\]](#).
- E:** Bharucha, A. and Brümmer, F. and Desai, N. and Mutzel, S.: *Axion-like particles as mediators for dark matter: beyond freeze-out*. *JHEP* **02** 141 (2023). [arXiv:2209.03932 \[hep-ph\]](#).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- E:** Adachi, I. and others, Belle-II Collaboration: *Search for a long-lived spin-0 mediator in $b\rightarrow s$ transitions at the Belle II experiment*. *Phys. Rev. D* **108** L111104 (2023). Belle II Preprint 2023-009, KEK Preprint 2023-7, [arXiv:2306.02830 \[hep-ex\]](#).
- E:** Bauer, Martin and Rostagni, Guillaume and Spinner, Jonas: *Axion-Higgs portal*. *Phys. Rev. D* **107** 015007 (2023). IPPP/22/45, TTP22-043, [arXiv:2207.05762 \[hep-ph\]](#).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities*. *JHEP* **08** 092 (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Asadi, Pouya and Bhattacharya, Arindam and Fraser, Katherine and Homiller, Samuel and Parikh, Aditya: *Wrinkles in the Froggatt-Nielsen mechanism and flavorful new physics*. *JHEP* **10** 069 (2023). [arXiv:2308.01340 \[hep-ph\]](#).
- E:** Acciarri, R. and others, ArgoNeuT Collaboration: *First Constraints on Heavy QCD Axions with a Liquid Argon Time Projection Chamber Using the ArgoNeuT Experiment*. *Phys. Rev. Lett.* **130** 221802 (2023). FERMILAB-PUB-22-527-ND-T, UMN-TH-4128/22, FTPI-MINN-22/19, [arXiv:2207.08448 \[hep-ex\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Altmannshofer, Wolfgang and Dror, Jeff A. and Gori, Stefania: *New Opportunities for Detecting Axion-Lepton Interactions*. *Phys. Rev. Lett.* **130** 241801 (2023). [arXiv:2209.00665 \[hep-ph\]](#).
- E:** Ahn, Y. H. and Kang, Sin Kyu: *Simple modular invariant model for quark, lepton, and flavored QCD axion*. *Phys. Rev. D* **108** 095034 (2023). [arXiv:2306.14467 \[hep-ph\]](#).
- E:** Ahcida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Afik, Yoav and Döbrich, Babette and Jerhot, Jan and Soreq, Yotam and Tobioka, Kohsaku: *Probing long-lived axions at the KOTO experiment*. *Phys. Rev. D* **108** 055007 (2023). IRMP-CP3-23-11, IRMP-CP3-23-10, MPP-2023-40, KEK-TH-2499, [arXiv:2303.01521 \[hep-ph\]](#).
- E:** Aebischer, Jason: *Kaon physics overview*. *J. Phys. Conf. Ser.* **2446** 012001 (2023). [arXiv:2212.09622 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).

- E:** Trifinopoulos, Sokratis: *Explaining the Flavour Anomalies with Heavy Scalars*. Corfu Summer Institute 2021 "School and Workshops on Elementary Particle Physics and Gravity". Proceedings of Science CORFU2021 052 (2022). arXiv:2203.09624 [hep-ph].
- T:** Schäfer, Ruth: *New Physics Searches in Flavour Observables*. doi:10.11588/heidok.00032278 (2022).
- E:** Sakurai, Kodai and Yin, Wen: *Phenomenology of CP-even ALP*. JHEP 04 113 (2022). TU-1138, arXiv:2111.03653 [hep-ph].
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. PTEP 2022 083C01 (2022).
- E:** Novoa-Brunet, Martín: *Connecting $b \rightarrow s\ell\ell$ with $b \rightarrow s\nu\bar{\nu}$ and $s \rightarrow d\nu\bar{\nu}$* . (2022). BARI-TH/22-739, arXiv:2211.04383 [hep-ph].
- E:** Neshatpour, Siavash and Mahmoudi, Farvah: *Flavour Physics Phenomenology with SuperIso*. Computational Tools for High Energy Physics and Cosmology. Proceedings of Science CompTools2021 010 (2022). CERN-TH-2022-119, arXiv:2207.04956 [hep-ph].
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). arXiv:2204.13394 [hep-ex].
- A:** Fiorenza, Renato and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay at the NA62 experiment at CERN*. The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021 176 (2022).
- A:** Swallow, Joel Chistopher and others, NA62 Collaboration: *Searches for lepton flavour/number violation in K^+ and π^0 decays at the NA62 experiment*. The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021 130 (2022).
- A:** Jerhot, Jan and others, NA62 Collaboration: *NA62 results on Dark Sector searches*. Frascati Phys. Ser. 74 269–284 (2022).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A measurement of the $K^+ \rightarrow \pi^+\mu^+\mu^-$ decay*. JHEP 11 011 (2022). [Addendum: JHEP 06, 040 (2023)]CERN-EP-2022-189, arXiv:2209.05076 [hep-ex].
- A:** Koval, Michal and others, NA62 Collaboration: *New measurement of the radiative decay $Ke3\gamma$ at the NA62 experiment at CERN*. Particles and Nuclei International Conference 2021. Proceedings of Science PANIC2021 427 (2022).
- A:** Zamkovský, Michal and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay*. 7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021 070 (2022).
- A:** Kholodenko, Sergei and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. 7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021 066 (2022).
- A:** Brizioli, Francesco and others, NA62 Collaboration: *Preliminary results of the $K^+ \rightarrow \pi^0e^+\nu\gamma$ decay study at the NA62 experiment*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021 553 (2022).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for long-lived heavy neutral leptons and Higgs portal scalars decaying in the MicroBooNE detector*. Phys. Rev. D 106 092006 (2022). FERMILAB-PUB-22-507, arXiv:2207.03840 [hep-ex].
- E:** Marzocca, David and Trifinopoulos, Sokratis and Venturini, Elena: *From B-meson anomalies to Kaon physics with scalar leptoquarks*. Eur. Phys. J. C 82 320 (2022). TUM-HEP-1344-21, arXiv:2106.15630 [hep-ph].
- E:** Lin, Chieh: *Rare Kaon Decays*. (2022). arXiv:2208.01144 [hep-ex].
- E:** Lin, Chieh, KOTO Collaboration: *Status of the $K_L^0 \rightarrow \pi^0\nu\bar{\nu}$ Search at the KOTO Experiment*. 7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021 069 (2022).
- E:** Li, Xin-Qiang and Shen, Meng and Wang, Dong-Yang and Yang, Ya-Dong and Yuan, Xing-Bo: *Explaining the $bb\bar{I}s \rightarrow b\bar{I}ss\ell+\ell-$ anomalies in Z' scenarios with top-FCNC couplings*. Nucl. Phys. B 980 115828 (2022). arXiv:2112.14215 [hep-ph].
- T:** Lari, Enrico: *Measurements of the neutral meson Dalitz decay with application of Deep Learning techniques*. (2022).
- A:** Lari, Enrico: *Measurements of the $\pi^0 \rightarrow e^+e^-\gamma$ decay with application of Deep Learning techniques*. (2022). CERN-THESIS-2022-276.
- T:** Keats, Abigail R.: *Cosmology and light particles in scalar and neutrino portal extensions of the Standard Model*. (2022).
- E:** Ibe, Masahiro and Kobayashi, Shin and Nakayama, Yuhei and Shirai, Satoshi: *Cosmological constraints on dark scalar*. JHEP 03 198 (2022). IPMU21-0087, arXiv:2112.11096 [hep-ph].
- E:** Hou, Wei-Shu and Kumar, Girish: *Strange processes in general two Higgs doublet model*. JHEP 10 129 (2022). arXiv:2207.07030 [hep-ph].
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, arXiv:2211.16586 [hep-ex].

- E:** Harris, Philip and Schuster, Philip and Zupan, Jure: *Snowmass White Paper: New flavors and rich structures in dark sectors.* (2022). [arXiv:2207.08990 \[hep-ph\]](#).
- E:** Harigaya, Keisuke and Wang, Isaac R.: *First-Order Electroweak Phase Transition and Baryogenesis from a Naturally Light Singlet Scalar.* (2022). CERN-TH-2022-107, [arXiv:2207.02867 \[hep-ph\]](#).
- E:** Hara, Tomoya and Kanemura, Shinya and Katayose, Taisuke: *Is light thermal scalar dark matter possible?* *Phys. Rev. D* **105** 035035 (2022). OU-HET-1104, [arXiv:2109.03553 \[hep-ph\]](#).
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *Revisiting $K \rightarrow \pi a$ decays.* *Eur. Phys. J. C* **82** 192 (2022). [arXiv:2106.05910 \[hep-ph\]](#).
- T:** Green, Patrick J.: *Light and Dark in Liquid Argon Time Projection Chamber Neutrino Detectors.* (2022). [FERMILAB-THESIS-2022-29](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks.* (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- T:** Goodwin, Owen: *Search for Higgs Portal Scalars and Heavy Neutral Leptons Decaying in the MicroBooNE Detector.* (2022). [FERMILAB-THESIS-2022-05](#).
- E:** Ghebretinsaea, Filmon Andom and Wang, Zeren Simon and Wang, Kechen: *Probing axion-like particles coupling to gluons at the LHC.* *JHEP* **07** 070 (2022). [arXiv:2203.01734 \[hep-ph\]](#).
- E:** Geng, Li-Sheng and Camalich, Jorge Martin and Shi, Rui-Xiang: *New physics in $s \rightarrow d$ semileptonic transitions: rare hyperon vs. kaon decays.* *JHEP* **02** 178 (2022). [arXiv:2112.11979 \[hep-ph\]](#).
- E:** Gallo, Jorge Alda and Guerrero, Alfredo Walter Mario and Peñaranda, Siannah and Rigolin, Stefano: *Leptonic meson decays into invisible ALP.* *Nucl. Phys. B* **979** 115791 (2022). [arXiv:2111.02536 \[hep-ph\]](#).
- T:** Fridell, Karl Kåre: *Phenomenology of Baryogenesis and Neutrino Physics: From Effective Field Theory to Simplified Models.* (2022).
- E:** Foguel, Ana Luisa and Salla, Gabriel M. and Funchal, Renata Zukanovich: *(In)Visible signatures of the minimal dark abelian gauge sector.* *JHEP* **12** 063 (2022). [arXiv:2209.03383 \[hep-ph\]](#).
- E:** D'Eramo, Francesco and Yun, Seokhoon: *Flavor violating axions in the early Universe.* *Phys. Rev. D* **105** 075002 (2022). [arXiv:2111.12108 \[hep-ph\]](#).
- E:** Dekens, Wouter and de Vries, Jordy and Shain, Sachin: *CP-violating axion interactions in effective field theory.* *JHEP* **07** 014 (2022). [arXiv:2203.11230 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Anatomy of kaon decays and prospects for lepton flavour universality violation.* *JHEP* **09** 148 (2022). CERN-TH-2022-101, [arXiv:2206.14748 \[hep-ph\]](#).
- E:** Crosas, Óscar L. and Isidori, Gino and Lizana, Javier M. and Selimovic, Nudzeim and Stefanek, Ben A.: *Flavor non-universal vector leptoquark imprints in $K \rightarrow \pi \nu \nu^-$ and $\Delta F_B I^s = BI^s 2$ transitions.* *Phys. Lett. B* **835** 137525 (2022). ZU-TH-25/22, [arXiv:2207.00018 \[hep-ph\]](#).
- E:** Coloma, Pilar and Hernández, Pilar and Urrea, Salvador: *New bounds on axion-like particles from MicroBooNE.* *JHEP* **08** 025 (2022). [arXiv:2202.03447 \[hep-ph\]](#).
- E:** Coffey, John and McKeen, David and Morrissey, David E. and Raj, Nirmal: *Neutron star observations of pseudoscalar-mediated dark matter.* *Phys. Rev. D* **106** 115019 (2022). [arXiv:2207.02221 \[hep-ph\]](#).
- E:** Co, Raymond T. and Gherghetta, Tony and Harigaya, Keisuke: *Axiogenesis with a heavy QCD axion.* *JHEP* **10** 121 (2022). UMN-TH-4124/22, FTPI-MINN-22/15, CERN-TH-2022-090, [arXiv:2206.00678 \[hep-ph\]](#).
- E:** Cata, Oscar: *Present status of radiative and rare kaon decays.* *EPJ Web Conf.* **258** 06009 (2022). [arXiv:2112.15128 \[hep-ph\]](#).
- A:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN.* [doi:10.17635/lancaster/thesis/1650](#) (2022).
- E:** Buras, Andrzej J.: *On the Standard Model Predictions for Rare K and B Decay Branching Ratios: 2022.* (2022). A.JB-22-8, [arXiv:2205.01118 \[hep-ph\]](#).
- E:** Brax, Philippe and Davis, Anne-Christine and Elder, Benjamin: *$(g-2)\mu$ and screened modified gravity.* *Phys. Rev. D* **106** 044040 (2022). [arXiv:2111.01188 \[hep-ph\]](#).
- E:** Boughezal, Radja and others: *Theory Techniques for Precision Physics – Snowmass 2021 TF06 Topical Group Report.* (2022). [arXiv:2209.10639 \[hep-ph\]](#).
- E:** Botella, Francisco J. and Branco, G. C. and Rebelo, M. N. and Silva-Marcos, J. I. and Bastos, José Filipe: *Decays of the heavy top and new insights on ϵ_K in a one-VLQ minimal solution to the CKM unitarity problem.* *Eur. Phys. J. C* **82** 360 (2022). [Erratum: *Eur.Phys.J.C* **82**, 423 (2022)], [arXiv:2111.15401 \[hep-ph\]](#).
- E:** Blinov, Nikita and Kowalczyk, Elizabeth and Wynne, Margaret: *Axion-like particle searches at DarkQuest.* *JHEP* **02** 036 (2022). FERMILAB-PUB-21-749-V, [arXiv:2112.09814 \[hep-ph\]](#).
- E:** Bigaran, Innes and Volkas, Raymond R.: *Reflecting on chirality: CP-violating extensions of the single scalar-leptoquark solutions for the $(g-2)_{e,\mu}$ puzzles and their implications for lepton EDMs.* *Phys. Rev. D* **105** 015002 (2022). [arXiv:2110.03707 \[hep-ph\]](#).
- E:** Jia, S. and others, Belle Collaboration: *Search for a light Higgs boson in single-photon decays of $\Upsilon(1S)$ using $\Upsilon(2S) \rightarrow \pi^+ \pi^- \Upsilon(1S)$ tagging method.* *Phys. Rev. Lett.* **128** 081804 (2022). Belle Preprint 2021-30; KEK Preprint 2021-35, [arXiv:2112.11852 \[hep-ex\]](#).

- E:** Bauer, Martin and Neubert, Matthias and Renner, Sophie and Schnubel, Marvin and Thamm, Andrea: *Flavor probes of axion-like particles*. *JHEP* **09** 056 (2022). MITP/21-025, CERN-TH-2021-148, IPPP/21/37, [arXiv:2110.10698 \[hep-ph\]](#).
- E:** Batell, Brian and others: *Dark Sector Studies with Neutrino Beams*. (2022). FERMILAB-FN-1180-ND-T, [arXiv:2207.06898 \[hep-ph\]](#).
- E:** Batell, Brian and Blinov, Nikita and Hearty, Christopher and McGehee, Robert: *Exploring Dark Sector Portals with High Intensity Experiments*. (2022). [arXiv:2207.06905 \[hep-ph\]](#).
- E:** Bai, Weidong and Diwan, Milind and Garzelli, Maria Vittoria and Jeong, Yu Seon and Kumar, Fnu Karan and Reno, Mary Hall: *Parton distribution function uncertainties in theoretical predictions for far-forward tau neutrinos at the Large Hadron Collider*. *JHEP* **06** 148 (2022). [arXiv:2112.11605 \[hep-ph\]](#).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
- E:** Artuso, Marina and others: *Report of the Frontier For Rare Processes and Precision Measurements*. (2022). FERMILAB-FN-1206-PPD, [arXiv:2210.04765 \[hep-ex\]](#).
- E:** Ahn, Y. H. and Kang, Sin Kyu and Lee, Hyun Min: *Toward a model of quarks and leptons*. *Phys. Rev. D* **106** 075029 (2022). [arXiv:2112.13392 \[hep-ph\]](#).
- E:** Wingate, Matthew: *Quark flavor physics and lattice QCD*. *Eur. Phys. J. A* **57** 239 (2021). [arXiv:2103.17224 \[hep-lat\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Lepton Number and Flavor Violation in K^+ and π^0 Decays*. *Phys. Rev. Lett.* **127** 131802 (2021). CERN-EP-2021-090, [arXiv:2105.06759 \[hep-ex\]](#).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for a Higgs Portal Scalar Decaying to Electron-Positron Pairs in the MicroBooNE Detector*. *Phys. Rev. Lett.* **127** 151803 (2021). FERMILAB-PUB-21-262-E, [arXiv:2106.00568 \[hep-ex\]](#).
- E:** Gorbunov, Dmitry and Krasnov, Igor and Suvorov, Sergey: *Constraints on light scalars from PS191 results*. *Phys. Lett. B* **820** 136524 (2021). INR-TH-2021-012, [arXiv:2105.11102 \[hep-ph\]](#).
- E:** Fajfer, Svjetlana and Novosel, Anja: *Colored scalars mediated rare charm meson decays to invisible fermions*. *Phys. Rev. D* **104** 015014 (2021). [arXiv:2101.10712 \[hep-ph\]](#).
- E:** Descotes-Genon, Sébastien and Fajfer, Svjetlana and Kamenik, Jernej F. and Novoa-Brunet, Martín: *Implications of $b \rightarrow s\ell^+\ell^-$ constraints on $b \rightarrow s\nu\bar{\nu}$ and $s \rightarrow d\nu\bar{\nu}$* . (2021). [arXiv:2105.09693 \[hep-ph\]](#).
- E:** Dekens, Wouter and Andreoli, Lorenzo and de Vries, Jordy and Mereghetti, Emanuele and Oosterhof, Femke: *A low-energy perspective on the minimal left-right symmetric model*. *JHEP* **11** 127 (2021). LA-UR-21-26789, [arXiv:2107.10852 \[hep-ph\]](#).
- E:** Colangelo, Pietro and De Fazio, Fulvia and Loporco, Francesco: *$c \rightarrow u\nu\nu^-$ transitions of Bc mesons: 331 model facing Standard Model null tests*. *Phys. Rev. D* **104** 115024 (2021). BARI-TH/21-728, [arXiv:2107.07291 \[hep-ph\]](#).
- E:** Chakraborti, Sreemanti and Feng, Jonathan L. and Koga, James K. and Valli, Mauro: *Gamma factory searches for extremely weakly interacting particles*. *Phys. Rev. D* **104** 055023 (2021). UCI-TR-2021-12, [arXiv:2105.10289 \[hep-ph\]](#).
- E:** Buras, Andrzej J. and Venturini, Elena: *Searching for New Physics in Rare K and B Decays without $|V_{cb}|$ and $|V_{ub}|$ Uncertainties*. *Acta Phys. Polon. B* **53** 6-A1 (2021). AJB-21-7, TUM-HEP-1364/21, [arXiv:2109.11032 \[hep-ph\]](#).
- E:** Brod, Joachim and Gorbahn, Martin and Stamou, Emmanuel: *Updated Standard Model Prediction for $K \rightarrow \pi\nu\bar{\nu}$ and ϵ_K* . *19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020* 056 (2021). [arXiv:2105.02868 \[hep-ph\]](#).
- E:** Batell, Brian and Freitas, Ayres and Ismail, Ahmed and McKeen, David and Rai, Mudit: *Renormalizable models of flavor-specific scalars*. *Phys. Rev. D* **104** 115032 (2021). PITT-PACC-2114, [arXiv:2107.08059 \[hep-ph\]](#).
- T:** Alvey, James: *How do you see in the dark?*. (2021).
81. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. *Phys. Lett. B* **816** 136259 (2021). [arXiv:2101.12304 \[hep-ex\]](#).
- 107 Citations:
- E:** Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons*. *JHEP* **02** 140 (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+\nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- E:** Abdollahi, A. M. and others, MicroBooNE Collaboration: *First Search for Dark Sector e^+e^- Explanations of the MiniBooNE Anomaly at MicroBooNE*. (2025). FERMILAB-PUB-25-0080, [arXiv:2502.10900 \[hep-ex\]](#).
- T:** Mascellani, Anna: *Search for Long-Lived Heavy Neutral Leptons with Muons at the CMS Experiment and Characterisation of Scintillating Fibre Trackers*. [doi:10.5075/epfl-thesis-11023](#) (2025).

- E:** Dutta, Bhaskar and Karthikeyan, Aparajitha and Kim, Doojin and Thompson, Adrian and Van de Water, Richard G.: *Photon Excess from Dark Matter and Neutrino Scattering at MiniBooNE and MicroBooNE*. (2025). MI-HET-855, [arXiv:2504.08071 \[hep-ph\]](#).
- E:** Hayrapetyan, Aram and others, CMS Collaboration: *Search for long-lived heavy neutral leptons in proton-proton collision events with a lepton-jet pair associated with a secondary vertex at $\sqrt{s} = 13$ TeV*. *JHEP* **02** 036 (2025). CMS-EXO-21-011, CERN-EP-2024-161, [arXiv:2407.10717 \[hep-ex\]](#).
- E:** Bryman, Douglas and Shrock, Robert: *Pion Decay*. (2025). [arXiv:2502.18384 \[hep-ph\]](#).
- E:** Ariga, Akitaka and Barwick, Steven and Boyd, Jamie and Fieg, Max and Kling, Felix and Mäkelä, Toni and Vendeuvre, Camille and Weyer, Benjamin: *Detecting LHC Neutrinos at Surface Level*. (2025). [arXiv:2501.06142 \[hep-ex\]](#).
- E:** Alves, Gustavo F. S. and Dev, P. S. Bhupal and Kelly, Kevin J. and Machado, Pedro A. N.: *Mass reconstruction of heavy neutral leptons from stopped mesons*. *Phys. Rev. D* **111** 015017 (2025). CETUP-2024-007, FERMILAB-PUB-24-0559-T, MI-HET-839, [arXiv:2409.04394 \[hep-ph\]](#).
- E:** Adhikary, Jyotismita and Kelly, Kevin J. and Kling, Felix and Trojanowski, Sebastian: *Neutrino-portal dark matter detection prospects at a future muon collider*. *Phys. Rev. D* **111** 075019 (2025). MI-HET-848, [arXiv:2412.10315 \[hep-ph\]](#).
- E:** Zhang, Yue: *Neutrino Self-interaction and Weak Mixing Angle Measurements*. (2024). [arXiv:2411.05070 \[hep-ph\]](#).
- E:** Zhang, Yue: *On dark matter self-interaction via single neutrino exchange potential*. *Phys. Dark Univ.* **44** 101434 (2024). [arXiv:2310.10743 \[hep-ph\]](#).
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays*. *EPJ Web Conf.* **312** 03001 (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries*. *Proceedings of Science DISCRETE2022* 071 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- T:** Nangia, Saurabh: *Towards Model-independent Predictions for R-parity Violating Supersymmetry*. (2024).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for Heavy Neutral Leptons in Electron-Positron and Neutral-Pion Final States with the MicroBooNE Detector*. *Phys. Rev. Lett.* **132** 041801 (2024). FERMILAB-PUB-23-574-ND, [arXiv:2310.07660 \[hep-ex\]](#).
- T:** Mckelvey, Thomas: *Novel Resonant Mechanisms for Generating Matter-Antimatter Asymmetry in Minimal Extensions of the Standard Model*. (2024).
- E:** Marcos, Marta Burgos and de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *ALPs and HNLs at LHC and Muon Colliders: Uncovering New Couplings and Signals*. [doi:10.21468/SciPostPhys.18.3.084](#) (2024). IFT-UAM/CSIC-24-103, [arXiv:2407.14970 \[hep-ph\]](#).
- T:** Li, Jiaoyang: *Measuring dark neutrinos and light using external and internal components of LArTPCs*. [doi:10.7488/era/5533](#) (2024). [FERMILAB-THESIS-2024-19](#).
- T:** Köhler, Dominik: *Various Phenomenological Aspects of the R-parity Violating MSSM*. (2024).
- E:** Knapen, Simon and Opferkuch, Toby and Redigolo, Diego and Tamaro, Michele: *Displaced Searches for Axion-Like Particles and Heavy Neutral Leptons at Mu3e*. (2024). [arXiv:2410.13941 \[hep-ph\]](#).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN*. *International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023* 042 (2024).
- T:** Fricano, Gaetano: *Dark Photon Search at the Short-Baseline Near Detector*. (2024). [FERMILAB-MASTERS-2024-04](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Dutta, Bhaskar and Karthikeyan, Aparajitha and Kim, Doojin: *Longer-lived mediators from charged mesons and photons at neutrino experiments*. *Phys. Rev. D* **109** 075029 (2024). MI-HET-809, [arXiv:2308.01491 \[hep-ph\]](#).
- E:** Dev, P. S. Bhupal and Kim, Doojin and Sathyan, Deepak and Sinha, Kuver and Zhang, Yongchao: *New Laboratory Constraints on Neutrino-philic Mediators*. (2024). [arXiv:2407.12738 \[hep-ph\]](#).
- E:** Dev, P. S. Bhupal and Dutta, Bhaskar and Han, Tao and Kim, Doojin: *Anomalous tau neutrino appearance from light mediators in short-baseline neutrino experiments*. *Phys. Lett. B* **850** 138500 (2024). MI-HET-797, PITT-PACC-2301, [arXiv:2304.02031 \[hep-ph\]](#).
- E:** Datta, Alakabha and Marfatia, Danny and Mukherjee, Lopamudra: *$B \rightarrow K \nu \bar{\nu}$, MiniBooNE and muon g-2 anomalies from a dark sector*. *Phys. Rev. D* **109** L031701 (2024). [arXiv:2310.15136 \[hep-ph\]](#).
- E:** Curtin, David and Grewal, Jaipratap Singh: *Long Lived Particle Decays in MATHUSLA*. *Phys. Rev. D* **109** 075017 (2024). [arXiv:2308.05860 \[hep-ph\]](#).
- E:** Chatterjee, Animesh and Hernandez-Garcia, Josu and De Roeck, Albert: *Heavy Neutral Lepton searches at an ICARUS-like detector using NuMI beam*. [doi:10.1140/epjc/s10052-025-13846-2](#) (2024). [arXiv:2408.03383 \[hep-ph\]](#).

- E:** Bertuzzo, Enrico and Frigerio, Michele: *Two portals to GeV sterile neutrinos : dipole versus mixing*. (2024). [arXiv:2412.10101 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* **10** 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Ariga, Akitaka and Balkin, Reuven and Galon, Iftah and Kajomovitz, Enrique and Soreq, Yotam: *Hunting muonic forces at emulsion detectors*. *Phys. Rev. D* **109** 035003 (2024). [arXiv:2305.03102 \[hep-ph\]](#).
- T:** Appelt, Christian: *Extending the limits in the hunt for long-lived heavy neutral leptons with the ATLAS experiment at the Large Hadron Collider at CERN*. doi:10.18452/28639 (2024).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- A:** Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN. The 10th International Workshop on Chiral Dynamics. Proceedings of Science CD2021 050* (2024).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. *JINST* **18** C12018 (2023).
- T:** Silva, Pablo Candia Da: *Neutrinos in Supersymmetry and the Early Universe*. (2023).
- E:** Shrock, Robert: *Some Theoretical Aspects of Searches for Heavy Neutrino Emission in Kaon Decays*. *J. Phys. Conf. Ser.* **2446** 012029 (2023).
- E:** Plows, Komninos-John and Lu, Xianguo: *Modeling heavy neutral leptons in accelerator beamlines*. *Phys. Rev. D* **107** 055003 (2023). [arXiv:2211.10210 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *ALP Production in Weak Mesonic Decays*. *Fortsch. Phys.* **71** 2200192 (2023). [arXiv:2211.08343 \[hep-ph\]](#).
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle. Proceedings of Science CKM2021 014* (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E:** Granelli, Alessandro and Pascoli, Silvia and Petcov, Serguey T.: *Low-Scale Leptogenesis with Low-Energy Dirac CP-Violation*. *Phys. Rev. D* **108** L101302 (2023). [arXiv:2307.07476 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86** 016201 (2023). FERMLAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- T:** González-López, Manuel: *Heavy neutrinos: The chosen ones to bring balance to physics*. (2023). [arXiv:2409.03813 \[hep-ph\]](#).
- E:** Fischer, Oliver and Pattnaik, Baibhab and Zurita, José: *Testing Heavy Neutral Leptons in Cosmic Ray Beam Dump experiments*. *JHEP* **07** 193 (2023). IFIC/23-02, [arXiv:2301.07120 \[hep-ph\]](#).
- E:** Fernández-Martínez, Enrique and González-López, Manuel and Hernández-García, Josu and Hostert, Matheus and López-Pavón, Jacobo: *Effective portals to heavy neutral leptons*. *JHEP* **09** 001 (2023). FTUV-23-0303.1224, IFIC/23-09, [arXiv:2304.06772 \[hep-ph\]](#).
- E:** Dreiner, Herbi K. and Köhler, Dominik and Nangia, Saurabh and Schürmann, Martin and Wang, Zeren Simon: *Recasting bounds on long-lived heavy neutral leptons in terms of a light supersymmetric R-parity violating neutralino*. *JHEP* **08** 058 (2023). BONN-TH-2023-06, [arXiv:2306.14700 \[hep-ph\]](#).
- E:** Dreiner, Herbi K. and Köhler, Dominik and Nangia, Saurabh and Wang, Zeren Simon: *Searching for a single photon from lightest neutralino decays in R-parity-violating supersymmetry at FASER*. *JHEP* **02** 120 (2023). BONN-TH-2022-15, [arXiv:2207.05100 \[hep-ph\]](#).
- E:** de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *Probing HNL-ALP couplings at colliders*. *Fortsch. Phys.* **71** 2300027 (2023). IFT-UAM-CSIC-22-152, [arXiv:2212.11290 \[hep-ph\]](#).
- E:** Datta, Alakabha and Hammad, A. and Marfatia, Danny and Mukherjee, Lopamudra and Rashed, Ahmed: *Dark photon and dark Z mediated B meson decays*. *JHEP* **03** 108 (2023). [arXiv:2210.15662 \[hep-ph\]](#).
- T:** Da Silva, Pablo Candia: *Neutrinos in Supersymmetry and the Early Universe*. (2023).
- E:** Cogollo, D. and Neves, M. J. and de Melo, Tessio B. and de Jesus, Alvaro S. and Oviado-Torres, Y. M. and Queiroz, F. S.: *Constraints on Hidden Sectors Using Rare Kaon Decays*. (2023). [arXiv:2310.19959 \[hep-ph\]](#).
- E:** Bernal, Nicolás and Farzan, Yasaman: *Neutrino nonstandard interactions with arbitrary couplings to u and d quarks*. *Phys. Rev. D* **107** 035007 (2023). [arXiv:2211.15686 \[hep-ph\]](#).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities*. *JHEP* **08** 092 (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Lees, J. P. and others, BaBar Collaboration: *Search for heavy neutral leptons using tau lepton decays at BaBar*. *Phys. Rev. D* **107** 052009 (2023). BABAR-PUB-22/002, SLAC-PUB-17695, [arXiv:2207.09575 \[hep-ex\]](#).

- E:** Argüelles, C. A. and others: *Snowmass white paper: beyond the standard model effects on neutrino flavor: Submitted to the proceedings of the US community study on the future of particle physics (Snowmass 2021)*. *Eur. Phys. J. C* **83** 15 (2023). [arXiv:2203.10811 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- E:** Zhu, Bin and Liu, Xuewen: *Probing the flavor-specific scalar mediator for the muon ($g - 2$) deviation, the proton radius puzzle and the light dark matter production*. *Sci. China Phys. Mech. Astron.* **65** 231011 (2022). [arXiv:2104.03238 \[hep-ph\]](#).
- E:** Zhou, Guanghui: *Light sterile neutrinos and lepton-number-violating kaon decays in effective field theory*. *JHEP* **06** 127 (2022). [arXiv:2112.00767 \[hep-ph\]](#).
- E:** Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull.* **77** 148–151 (2022).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E:** Nojiri, Mihoko M. and Sakaki, Yasuihito and Tobioka, Kohsaku and Ueda, Daiki: *First evaluation of meson and τ lepton spectra and search for heavy neutral leptons at ILC beam dump*. *JHEP* **12** 145 (2022). KEK-TH-2435, [arXiv:2206.13523 \[hep-ph\]](#).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A:** Volpe, Roberta and others, NA62 Collaboration: *Search for K^+ decays to a lepton and invisible particles*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 056 (2022).
- A:** Jerhot, Jan and others, NA62 Collaboration: *NA62 results on Dark Sector searches*. *Frascati Phys. Ser.* **74** 269–284 (2022).
- A:** Parkinson, Chris John and others, NA62 Collaboration: *Search for heavy neutral lepton production at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021* 686 (2022).
- E:** Middleton, Sophie, BaBar Collaboration: *Experimental Searches For Heavy Neutral Leptons*. (2022). [arXiv:2206.11422 \[hep-ex\]](#).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for long-lived heavy neutral leptons and Higgs portal scalars decaying in the MicroBooNE detector*. *Phys. Rev. D* **106** 092006 (2022). FERMILAB-PUB-22-507, [arXiv:2207.03840 \[hep-ex\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Greljo, Admir and Soreq, Yotam and Stangl, Peter and Thomsen, Anders Eller and Zupan, Jure: *Muonic force behind flavor anomalies*. *JHEP* **04** 151 (2022). [arXiv:2107.07518 \[hep-ph\]](#).
- T:** Green, Patrick J.: *Light and Dark in Liquid Argon Time Projection Chamber Neutrino Detectors*. (2022). FERMILAB-THESIS-2022-29 .
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- T:** Goodwin, Owen: *Search for Higgs Portal Scalars and Heavy Neutral Leptons Decaying in the MicroBooNE Detector*. (2022). FERMILAB-THESIS-2022-05 .
- T:** Foppiani, Nicolò: *Testing explanations of short baseline neutrino anomalies*. (2022). FERMILAB-THESIS-2022-17 , [arXiv:2209.13455 \[hep-ex\]](#).
- E:** Elor, Gilly and others: *New Ideas in Baryogenesis: A Snowmass White Paper*. (2022). [arXiv:2203.05010 \[hep-ph\]](#).
- E:** Elahi, Fatemeh and Elor, Gilly and McGehee, Robert: *Charged B mesogenesis*. *Phys. Rev. D* **105** 055024 (2022). LCTP-21-24, MITP-21-041, [arXiv:2109.09751 \[hep-ph\]](#).
- E:** Dutta, Bhaskar and Kim, Doojin and Thompson, Adrian and Thornton, Remington T. and Van de Water, Richard G.: *Solutions to the MiniBooNE Anomaly from New Physics in Charged Meson Decays*. *Phys. Rev. Lett.* **129** 111803 (2022). MI-HET-766, LA-UR-21-30532, [arXiv:2110.11944 \[hep-ph\]](#).
- A:** Dias, Kereibay: *Search for Heavy Neutral Lepton Production in NA62[#]*. *Moscow Univ. Phys. Bull.* **77** 220–222 (2022).
- E:** de Gouvêa, André and Fox, Patrick J. and Kayser, Boris J. and Kelly, Kevin J.: *Characterizing heavy neutral fermions via their decays*. *Phys. Rev. D* **105** 015019 (2022). FERMILAB-PUB-21-453-T, NUHEP-TH/21-11, [arXiv:2109.10358 \[hep-ph\]](#).
- E:** da Silva, P. Candia and Karamitros, D. and McKelvey, T. and Pilaftsis, A.: *Tri-resonant leptogenesis in a seesaw extension of the Standard Model*. *JHEP* **11** 065 (2022). [arXiv:2206.08352 \[hep-ph\]](#).

- T:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN*. doi:10.17635/lancaster/thesis/1650 (2022).
- E:** Bryman, Douglas and Cirigliano, Vincenzo and Crivellin, Andreas and Inguglia, Gianluca: *Testing Lepton Flavor Universality with Pion, Kaon, Tau, and Beta Decays*. *Ann. Rev. Nucl. Part. Sci.* **72** 69–91 (2022). CERN-TH-2021-184, LA-UR-21-30608, ZU-TH 54/21, arXiv:2111.05338 [hep-ph].
- T:** Briano Olvera, Alejandro: *Búsqueda de Producción de Neutrinos Pesados en Decaimientos de Píon a Positrón*. (2022).
- E:** Batell, Brian and others: *Dark Sector Studies with Neutrino Beams*. (2022). FERMILAB-FN-1180-ND-T, arXiv:2207.06898 [hep-ph].
- E:** Barrow, J. L. and others: *Theories and Experiments for Testable Baryogenesis Mechanisms: A Snowmass White Paper*. (2022). arXiv:2203.07059 [hep-ph].
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
- E:** Asadi, Pouya and others: *Early-Universe Model Building*. (2022). FERMILAB-CONF-22-158-T, arXiv:2203.06680 [hep-ph].
- E:** Argüelles, Carlos A. and Foppiani, Nicolò and Hostert, Matheus: *Heavy neutral leptons below the kaon mass at hodoscopic neutrino detectors*. *Phys. Rev. D* **105** 095006 (2022). arXiv:2109.03831 [hep-ph].
- E:** Tastet, Jean-Loup and Ruchayskiy, Oleg and Timiryasov, Inar: *Reinterpreting the ATLAS bounds on heavy neutral leptons in a realistic neutrino oscillation model*. *JHEP* **12** 182 (2021). arXiv:2107.12980 [hep-ph].
- T:** Tastet, Jean-Loup: *Searching for Heavy Neutral Leptons at CERN*. (2021).
- E:** Tastet, Jean-Loup and Goudzovski, Evgueni and Timiryasov, Inar and Ruchayskiy, Oleg: *Projected NA62 sensitivity to heavy neutral lepton production in $K^+ \rightarrow \pi^0 e^+ N$ decays*. *Phys. Rev. D* **104** 055005 (2021). arXiv:2008.11654 [hep-ph].
- E:** Klarić, Juraž and Shaposhnikov, Mikhail and Timiryasov, Inar: *Reconciling resonant leptogenesis and baryogenesis via neutrino oscillations*. *Phys. Rev. D* **104** 055010 (2021). arXiv:2103.16545 [hep-ph].
- E:** Kelly, Kevin James and Machado, Pedro A. N.: *MicroBooNE experiment, NuMI absorber, and heavy neutral leptons*. *Phys. Rev. D* **104** 055015 (2021). FERMILAB-PUB-21-277-T, arXiv:2106.06548 [hep-ph].
- E:** Ghorbani, Karim: *Light vector dark matter with scalar mediator and muon $g-2$ anomaly*. *Phys. Rev. D* **104** 115008 (2021). arXiv:2104.13810 [hep-ph].
- E:** Fong, Chee Sheng and Rahat, Moinul Hossain and Saad, Shaikh: *Low-scale resonant leptogenesis in $SU(5)$ GUT with T_{13} family symmetry*. *Phys. Rev. D* **104** 095028 (2021). arXiv:2103.14691 [hep-ph].
- E:** Escudero, Miguel and Witte, Samuel J.: *The hubble tension as a hint of leptogenesis and neutrino mass generation*. *Eur. Phys. J. C* **81** 515 (2021). TUM-HEP 1318/21, arXiv:2103.03249 [hep-ph].
- T:** Cepaitis, Vilius: *Flavour-universal search for heavy neutral leptons with a deep neural network-based displaced jet tagger with the CMS experiment*. doi:10.25560/99887 (2021).
- E:** Acciarri, R. and others, ArgoNeuT Collaboration: *New Constraints on Tau-Coupled Heavy Neutral Leptons with Masses $m_N=280-970$ MeV*. *Phys. Rev. Lett.* **127** 121801 (2021). FERMILAB-PUB-21-296-ND-T, arXiv:2106.13684 [hep-ex].
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* **81** 1015 (2021). arXiv:2102.12143 [hep-ph].
80. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for a feebly interacting particle X in the decay $K^+ \rightarrow \pi^+ X$* . *JHEP* **03** 058 (2021). arXiv:2011.11329 [hep-ex].
- 90 Citations:
- E:** Wang, Zeren Simon and Zhang, Yu and Chen, Liangwen: *Searching for long-lived particles from stopped pions and muons at the CiADS-BDE*. (2025). arXiv:2501.15460 [hep-ph].
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for the production of Higgs-portal scalar bosons in the NuMI beam using the MicroBooNE detector*. (2025). FERMILAB-PUB-25-0012-PPD, arXiv:2501.08052 [hep-ex].
- E:** Kim, Jinheung and Kim, Dongjoo and Lee, Soojin and Song, Jeonghyeon: *Emerging Photon Jets in the Hadronic Calorimeter: A Novel Signature of Neutral Long-Lived Particles at the LHC*. (2025). KIAS-P25016, arXiv:2504.19693 [hep-ph].
- E:** Karan, Anirban and Leite, Julio and Valle, José W. F.: *Flavor-changing axions and Dirac neutrino masses*. (2025). arXiv:2502.16000 [hep-ph].
- E:** Jiang, Xu-Hui and Lu, Chih-Ting: *Leptophilic axionlike particles at forward detectors*. *Phys. Rev. D* **111** 035035 (2025). arXiv:2412.19195 [hep-ph].
- E:** Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data*. (2025). LAPTH-008/25, arXiv:2503.05865 [hep-ph].

- E:** Demidov, S. V.: *New physics from atmosphere: light sgoldstino case.* (2025). [arXiv:2503.18112 \[hep-ph\]](#).
- E:** Delaunay, Cédric and Kitahara, Teppei and Soreq, Yotam and Zupan, Jure: *Light scalar beyond the Higgs mixing limit.* (2025). [arXiv:2501.16477 \[hep-ph\]](#).
- E:** Bhattacharjee, Biplob and Bose, Camellia and Dreiner, Herbi K. and Ghosh, Nivedita and Matsumoto, Shigeki and Mukherjee, Swagata and Sengupta, Rhitaja and Sharma, Anand: *Proposal for a shared transverse LLP detector for FCC-ee and FCC-hh and a forward LLP detector for FCC-hh.* (2025). BONN-TH-2025-15, [arXiv:2503.21875 \[hep-ph\]](#).
- E:** Bhattacharjee, Biplob and Bose, Camellia and Dreiner, Herbi K. and Ghosh, Nivedita and Matsumoto, Shigeki and Sengupta, Rhitaja: *Long-lived Light Mediators in a Higgs Portal Model at the FCC-ee.* (2025). BONN-TH-2025-10, [arXiv:2503.08780 \[hep-ph\]](#).
- E:** Ariga, Akitaka and Barwick, Steven and Boyd, Jamie and Fieg, Max and Kling, Felix and Mäkelä, Toni and Vendeuvre, Camille and Weyer, Benjamin: *Detecting LHC Neutrinos at Surface Level.* (2025). [arXiv:2501.06142 \[hep-ex\]](#).
- E:** Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3.* (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- E:** Yin, Wen: *Feebly-Interacting Peccei-Quinn Model.* (2024). [arXiv:2412.17802 \[hep-ph\]](#).
- E:** Wang, Zeren Simon and Zhang, Yu and Liu, Wei: *Searching for long-lived light neutralinos and axionlike particles at the SHiNESS experiment.* *Phys. Rev. D* **110** 075023 (2024). [arXiv:2408.05995 \[hep-ph\]](#).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- T:** Massaro, Daniele: *From dark matter to dark sectors: exploring signatures at multiple scales.* [doi:10.48676/unibo/amsdottorato/11240](#) (2024).
- E:** Liu, Wei and Xie, Ke-Pan: *Probing radiative electroweak symmetry breaking with colliders and gravitational waves.* *Phys. Rev. D* **110** 115001 (2024). [arXiv:2408.03649 \[hep-ph\]](#).
- T:** Li, Jiaoyang: *Measuring dark neutrinos and light using external and internal components of LArTPCs.* [doi:10.7488/era/5533](#) (2024). [FERMILAB-THESIS-2024-19](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS.* *Nuovo Cim. C* **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- E:** Duan, Xin-Chen and Ramos, Raymundo and Tsai, Yue-Lin Sming: *Relic density and temperature evolution of a light dark sector.* *Phys. Rev. D* **110** 063535 (2024). [arXiv:2404.12019 \[hep-ph\]](#).
- E:** Curtin, David and Grewal, Jaipratap Singh: *Long Lived Particle Decays in MATHUSLA.* *Phys. Rev. D* **109** 075017 (2024). [arXiv:2308.05860 \[hep-ph\]](#).
- E:** Coloma, Pilar and Martín-Albo, Justo and Urrea, Salvador: *Discovering long-lived particles at DUNE.* *Phys. Rev. D* **109** 035013 (2024). IFT-UAM/CSIC-23-111, IFIC/23-40, FTUV-23-0823.4331, [arXiv:2309.06492 \[hep-ph\]](#).
- E:** Chun, Eung Jin and Jyoti Das, Suruj and He, Minxi and Jung, Tae Hyun and Sun, Jin: *Cogenesis by a sliding pNGB with symmetry non-restoration.* (2024). CTPU-PTC-24-16, [arXiv:2406.04180 \[hep-ph\]](#).
- E:** Chen, Yu-Tong and Matsumoto, Shigeki and Tang, Tian-Peng and Tsai, Yue-Lin Sming and Wu, Lei: *Light thermal dark matter beyond p-wave annihilation in minimal Higgs portal model.* *JHEP* **05** 281 (2024). [arXiv:2403.02721 \[hep-ph\]](#).
- E:** Buonocore, Luca and Kling, Felix and Rottoli, Luca and Sominka, Jonas: *Predictions for neutrinos and new physics from forward heavy hadron production at the LHC.* *Eur. Phys. J. C* **84** 363 (2024). ZU-TH 58/23, DESY-23-139, CERN-TH-2019-050, [arXiv:2309.12793 \[hep-ph\]](#).
- E:** Berbig, Maximilian: *Diraxiogenesis.* *JHEP* **01** 061 (2024). [arXiv:2307.14121 \[hep-ph\]](#).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023.* *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E:** Allen, Stephanie and Blackburn, Albany and Cardenas, Oswaldo and Messenger, Zoe and Nguyen, Ngan H. and Shuve, Brian: *Electroweak axion portal to dark matter.* *Phys. Rev. D* **110** 095010 (2024). [arXiv:2405.02403 \[hep-ph\]](#).
- E:** Abdughani, Murat and Reyimuaji, Yakefu: *Constraining light dark matter and mediator with $B^+ \rightarrow K + \nu \bar{\nu}$ data.* *Phys. Rev. D* **110** 055013 (2024). [arXiv:2309.03706 \[hep-ph\]](#).
- E:** Abdallah, Waleed and Ashry, Mustafa and Kawamura, Junichiro and Moursy, Ahmad: *Semivisible dark photon in a model with vectorlike leptons for the $(g-2)_e, \mu$ and W -boson mass anomalies.* *Phys. Rev. D* **109** 015031 (2024). CTPU-PTC-23-32, [arXiv:2308.05691 \[hep-ph\]](#).
- E:** Rigolin, Stefano and Mario Guerrero, Alfredo Walter: *Meson decays in invisible ALP.* *Corfu Summer Institute 2022 "School and Workshops on Elementary Particle Physics and Gravity".* Proceedings of Science CORFU2022 043 (2023).

- E:** Mongillo, Martina and Abdullahi, Asli and Oberhauser, Benjamin Banto and Crivelli, Paolo and Hostert, Matheus and Massaro, Daniele and Bueno, Laura Molina and Pascoli, Silvia: *Constraining light thermal inelastic dark matter with NA64*. *Eur. Phys. J. C* **83** 391 (2023). IRMP-CP3-23-09, FERMILAB-PUB-23-066-T, CERN-TH-2023-018, [arXiv:2302.05414 \[hep-ph\]](#).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *ALP Production in Weak Mesonic Decays*. *Fortsch. Phys.* **71** 2200192 (2023). [arXiv:2211.08343 \[hep-ph\]](#).
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle*. *Proceedings of Science CKM2021* 014 (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E:** Granelli, Alessandro and Pascoli, Silvia and Petcov, Serguey T.: *Low-Scale Leptogenesis with Low-Energy Dirac CP-Violation*. *Phys. Rev. D* **108** L101302 (2023). [arXiv:2307.07476 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86** 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Ferber, Torben and Filimonova, Anastasiia and Schäfer, Ruth and Westhoff, Susanne: *Displaced or invisible? ALPs from B decays at Belle II*. *JHEP* **04** 131 (2023). P3H-22-005, Nikhef 2022-001, [arXiv:2201.06580 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC*. *J. Phys. G* **50** 030501 (2023). UCI-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Csaki, Csaba and Ismail, Ameen and Ruhdorfer, Maximilian and Tooby-Smith, Joseph: *Higgs squared*. *JHEP* **04** 082 (2023). [arXiv:2210.02456 \[hep-ph\]](#).
- T:** Bhandari, Aditya Harish: *Search for Low mass Higgs Portal Scalars at the MicroBooNE Detector in the NuMI Beam*. (2023). [FERMILAB-THESIS-2023-16](#).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities*. *JHEP* **08** 092 (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Altmannshofer, Wolfgang and Dror, Jeff A. and Gori, Stefania: *New Opportunities for Detecting Axion-Lepton Interactions*. *Phys. Rev. Lett.* **130** 241801 (2023). [arXiv:2209.00665 \[hep-ph\]](#).
- E:** Alonso-Álvarez, Gonzalo and Cline, James M. and Xiao, Tianzhuo: *The flavor of QCD axion dark matter*. *JHEP* **07** 187 (2023). [arXiv:2305.00018 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Abdullahi, Asli M. and Hostert, Matheus and Massaro, Daniele and Pascoli, Silvia: *Semi-Visible Dark Photon Phenomenology at the GeV Scale*. *Phys. Rev. D* **108** 015032 (2023). CERN-TH-2023-019, FERMILAB-PUB-23-054-T, IRMP-CP3-23-08, [arXiv:2302.05410 \[hep-ph\]](#).
- T:** Thormählen, Lennert Jarl: *Linking QCD axion models to their low-energy phenomenology*. (2022).
- T:** Scherb, Christiane: *Searching for new (dark and colourful) sectors at colliders and beyond*. [doi:10.25358/openscience-7958](#) (2022).
- T:** Schäfer, Ruth: *New Physics Searches in Flavour Observables*. [doi:10.11588/heidok.00032278](#) (2022).
- E:** Sakurai, Kodai and Yin, Wen: *Phenomenology of CP-even ALP*. *JHEP* **04** 113 (2022). TU-1138, [arXiv:2111.03653 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- E:** Klose, Philipp: *Factorizing hidden particle production rates*. *JHEP* **08** 265 (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Hara, Tomoya and Kanemura, Shinya and Katayose, Taisuke: *Is light thermal scalar dark matter possible?*. *Phys. Rev. D* **105** 035035 (2022). OU-HET-1104, [arXiv:2109.03553 \[hep-ph\]](#).
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *Revisiting $K \rightarrow \pi a$ decays*. *Eur. Phys. J. C* **82** 192 (2022). [arXiv:2106.05910 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).

- T:** Goodwin, Owen: *Search for Higgs Portal Scalars and Heavy Neutral Leptons Decaying in the MicroBooNE Detector.* (2022). [FERMILAB-THESIS-2022-05](#) .
- E:** Gallo, Jorge Alda and Guerrero, Alfredo Walter Mario and Peñaranda, Siannah and Rigolin, Stefano: *Leptonic meson decays into invisible ALP.* *Nucl. Phys. B* **979** 115791 (2022). [arXiv:2111.02536 \[hep-ph\]](#).
- E:** Coloma, Pilar and Hernández, Pilar and Urrea, Salvador: *New bounds on axion-like particles from MicroBooNE.* *JHEP* **08** 025 (2022). [arXiv:2202.03447 \[hep-ph\]](#).
- E:** Cheng, Hsin-Chia and Li, Lingfeng and Salvioni, Ennio: *A theory of dark pions.* *JHEP* **01** 122 (2022). CERN-TH-2021-150, [arXiv:2110.10691 \[hep-ph\]](#).
- A:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN.* [doi:10.17635/lancaster/thesis/1650](#) (2022).
- E:** Brax, Philippe and Davis, Anne-Christine and Elder, Benjamin: *$(g-2)\mu$ and screened modified gravity.* *Phys. Rev. D* **106** 044040 (2022). [arXiv:2111.01188 \[hep-ph\]](#).
- E:** Jia, S. and others, Belle Collaboration: *Search for a light Higgs boson in single-photon decays of $\Upsilon(1S)$ using $\Upsilon(2S) \rightarrow \pi^+ \pi^- \Upsilon(1S)$ tagging method.* *Phys. Rev. Lett.* **128** 081804 (2022). Belle Preprint 2021-30; KEK Preprint 2021-35, [arXiv:2112.11852 \[hep-ex\]](#).
- E:** Batell, Brian and others: *Dark Sector Studies with Neutrino Beams.* (2022). FERMILAB-FN-1180-ND-T, [arXiv:2207.06898 \[hep-ph\]](#).
- E:** Batell, Brian and Blinov, Nikita and Hearty, Christopher and McGehee, Robert: *Exploring Dark Sector Portals with High Intensity Experiments.* (2022). [arXiv:2207.06905 \[hep-ph\]](#).
- E:** Lees, J. P. and others, BaBar Collaboration: *Search for an Axionlike Particle in B Meson Decays.* *Phys. Rev. Lett.* **128** 131802 (2022). BABAR-PUB-21/006, SLAC-PUB-17631, [arXiv:2111.01800 \[hep-ex\]](#).
- E:** Abdallah, Waleed and Gandhi, Raj and Roy, Samiran: *Requirements on common solutions to the LSND and MiniBooNE excesses: a post-MicroBooNE study.* *JHEP* **06** 160 (2022). [arXiv:2202.09373 \[hep-ph\]](#).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN.* (2021).
- T:** Smith, Paul: *Beauty from Senselessness: Searching for Signals of Beyond the Standard Model Physics in a Complex World..* [doi:10.22215/etd/2021-14616](#) (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay.* *JHEP* **06** 093 (2021). [arXiv:2103.15389 \[hep-ex\]](#).
- E:** Mitsou, Vasiliki A.: *LHC experiments for long-lived particles of the dark sector.* [doi:10.1142/9789811269776%5F0160](#) (2021). IFIC/21-44, [arXiv:2111.03036 \[hep-ex\]](#).
- T:** Linster, Matthias Christian: *Phenomenology of Light Particles on Earth and in the Sky.* (2021).
- E:** Lanfranchi, Gaia and Pospelov, Maxim and Schuster, Philip: *The Search for Feebly Interacting Particles.* *Ann. Rev. Nucl. Part. Sci.* **71** 279–313 (2021). [arXiv:2011.02157 \[hep-ph\]](#).
- E:** Kang, Zhaofeng and Shigekami, Yoshihiro: *$(g-2)\mu$ versus $K \rightarrow \pi + E_{miss}$ induced by the $(B-L)_{23}$ boson.* *JHEP* **04** 238 (2021). [arXiv:2008.09793 \[hep-ph\]](#).
- E:** Fayet, Pierre: *U boson interpolating between a generalized dark photon or dark Z, an axial boson, and an axionlike particle.* *Phys. Rev. D* **103** 035034 (2021). [arXiv:2010.04673 \[hep-ph\]](#).
- T:** Ertas, Fatih: *Phenomenology of light pseudoscalar particles.* [doi:10.18154/RWTH-2021-09397](#) (2021).
- A:** Duk, V., NA62 Collaboration: *Rare decays from NA62.* *II Nuovo Cimento C* **44** 176 (2021).
- E:** Carmona, Adrian and Scherb, Christiane and Schwaller, Pedro: *Charming ALPs.* *JHEP* **08** 121 (2021). MITP-21-003, [arXiv:2101.07803 \[hep-ph\]](#).
- E:** Bryman, Douglas A. and Ito, Shintaro and Shrock, Robert: *Upper limits on branching ratios of the lepton-flavor-violating decays $\tau \rightarrow \ell \gamma \gamma$ and $\tau \rightarrow \ell X$.* *Phys. Rev. D* **104** 075032 (2021). [arXiv:2106.02451 \[hep-ph\]](#).
- E:** Bauer, Martin and Neubert, Matthias and Renner, Sophie and Schnubel, Marvin and Thamm, Andrea: *Consistent Treatment of Axions in the Weak Chiral Lagrangian.* *Phys. Rev. Lett.* **127** 081803 (2021). IPPP/20-82, MITP/21-007, ZU-TH-01/21, [arXiv:2102.13112 \[hep-ph\]](#).
- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions.* *JHEP* **09** 063 (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Archer-Smith, Paul and Zhang, Yue: *Higgs Portal From The Atmosphere To Hyper-K.* *Phys. Lett. B* **817** 136309 (2021). [arXiv:2005.08980 \[hep-ph\]](#).
- E:** Alonso-Álvarez, Gonzalo and Ertas, Fatih and Jaekel, Joerg and Kahlhoefer, Felix and Thormaehlen, Lennert J.: *Leading logs in QCD axion effective field theory.* *JHEP* **07** 059 (2021). TTK-21-02, [arXiv:2101.03173 \[hep-ph\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report.* *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).

79. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for π^0 decays to invisible particles.* *JHEP* 02 201 (2021). [arXiv:2010.07644 \[hep-ex\]](#).

111 Citations:

- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62.* (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- E:** Li, Jinmian and Nomura, Takaaki and Yagyu, Kei: *Multi-lepton jets from quadruple Z' via the Higgs decay at LHC.* *JHEP* 04 145 (2025). OU-HET-1254, [arXiv:2501.17573 \[hep-ph\]](#).
- E:** Kamada, Ayuki and Kuwahara, Takumi and Matsumoto, Shigeki and Watanabe, Yu and Watanabe, Yuki: *Mediator decay through mixing with degenerate spectrum.* *JHEP* 01 043 (2025). [arXiv:2404.06793 \[hep-ph\]](#).
- E:** Mammen Abraham, Roshan and others, FASER Collaboration: *Shining light on the dark sector: search for axion-like particles and other new physics in photonic final states with FASER.* *JHEP* 01 199 (2025). CERN-EP-2024-262, [arXiv:2410.10363 \[hep-ex\]](#).
- E:** Ding, Kewen and Li, Ying and Liu, Xuewen and Liu, Yu and Lu, Chih-Ting and Zhu, Bin: *Resonant ALP-Portal Dark Matter Annihilation as a Solution to the $B^\pm \rightarrow K^\pm \nu\bar{\nu}$ Excess.* (2025). [arXiv:2504.00383 \[hep-ph\]](#).
- E:** Demidov, S. V.: *New physics from atmosphere: light sgoldstino case.* (2025). [arXiv:2503.18112 \[hep-ph\]](#).
- E:** Delaunay, Cédric and Kitahara, Teppei and Soreq, Yotam and Zupan, Jure: *Light scalar beyond the Higgs mixing limit.* (2025). [arXiv:2501.16477 \[hep-ph\]](#).
- E:** Bryman, Douglas and Shrock, Robert: *Pion Decay.* (2025). [arXiv:2502.18384 \[hep-ph\]](#).
- E:** Bhattacharjee, Biplob and Bose, Camellia and Dreiner, Herbi K. and Ghosh, Nivedita and Matsumoto, Shigeki and Sengupta, Rhitaja: *Long-lived Light Mediators in a Higgs Portal Model at the FCC-ee.* (2025). BONN-TH-2025-10, [arXiv:2503.08780 \[hep-ph\]](#).
- E:** Ablikim, Medina and others, BESIII Collaboration: *Search for K_S^0 invisible decays.* (2025). [arXiv:2501.06426 \[hep-ex\]](#).
- E:** Bai, Yang and Chen, Ting-Kuo and Liu, Jia and Ma, Xiaolin: *Wess-Zumino-Witten Interactions of Axions.* *Phys. Rev. Lett.* 134 081803 (2025). [arXiv:2406.11948 \[hep-ph\]](#).
- E:** Ariga, Akitaka and Barwick, Steven and Boyd, Jamie and Fieg, Max and Kling, Felix and Mäkelä, Toni and Vendeuvre, Camille and Weyer, Benjamin: *Detecting LHC Neutrinos at Surface Level.* (2025). [arXiv:2501.06142 \[hep-ex\]](#).
- E:** Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3.* (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- A:** Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 446 (2025).
- T:** Zhou, Kevin: *Novel searches for physics beyond the standard model.* (2024).
- E:** Yin, Wen: *Feebly-Interacting Peccei-Quinn Model.* (2024). [arXiv:2412.17802 \[hep-ph\]](#).
- T:** Rostagni, Guillaume: *Effective Operators and Long-Range Forces for Dark Matter.* (2024).
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays.* *EPJ Web Conf.* 312 03001 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* 110 030001 (2024).
- E:** Nishimura, Satsuki and Miyao, Coh and Otsuka, Hajime: *Reinforcement learning-based statistical search strategy for an axion model from flavor.* (2024). KYUSHU-HET-296, [arXiv:2409.10023 \[hep-ph\]](#).
- T:** Nangia, Saurabh: *Towards Model-independent Predictions for R-parity Violating Supersymmetry.* (2024).
- E:** Andreev, Yu. M. and others, NA64 Collaboration: *Dark-Sector Search via Pion-Produced η and η' Mesons Decaying Invisibly in the NA64h Detector.* *Phys. Rev. Lett.* 133 121803 (2024). CERN-EP-2024-153, [arXiv:2406.01990 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+ \gamma\gamma$ decay.* *Phys. Lett. B* 850 138513 (2024). CERN-EP-2023-247, [arXiv:2311.01837 \[hep-ex\]](#).
- T:** Massaro, Daniele: *From dark matter to dark sectors: exploring signatures at multiple scales.* [doi:10.48676/unibo/amsdottorato/11240](#) (2024).
- E:** Liu, Wei and Xie, Ke-Pan: *Probing radiative electroweak symmetry breaking with colliders and gravitational waves.* *Phys. Rev. D* 110 115001 (2024). [arXiv:2408.03649 \[hep-ph\]](#).
- T:** Köhler, Dominik: *Various Phenomenological Aspects of the R-parity Violating MSSM.* (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN.* *International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023* 042 (2024).
- E:** Kalashnikov, Dmitrii and Gorbunov, Dmitry: *New Physics at NICA.* *International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023* 013 (2024).

- E: Harigaya, Keisuke and Wang, Isaac R.: *ALP-assisted strong first-order electroweak phase transition and baryogenesis*. *JHEP* **04** 108 (2024). [arXiv:2309.00587 \[hep-ph\]](#).
- E: Gninenko, S. N. and Krasnikov, N. V. and Matveev, V. A.: *Probing light dark matter with NA64 at CERN*. *Int. J. Mod. Phys. A* **39** 2445006 (2024).
- E: Gninenko, Sergei N. and Kirpichnikov, Dmitry V. and Krasnikov, Nikolai V. and Kuleshov, Sergey and Lyubovitskij, Valery E. and Zhevlakov, Alexey S.: *Probing leptophobic dark sector with a pseudoscalar portal in the NA64 experiment at CERN*. (2024). [arXiv:2407.01181 \[hep-ph\]](#).
- E: Gninenko, Sergei N. and Kirpichnikov, Dmitry V. and Kuleshov, Sergey and Lyubovitskij, Valery E. and Zhevlakov, Alexey S.: *Test of the vector portal with dark fermions in the charge-exchange reactions in the NA64 experiment at CERN SPS*. *Phys. Rev. D* **109** 075021 (2024). [arXiv:2312.01703 \[hep-ph\]](#).
- T: Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E: Ferber, Torben and Grohsjean, Alexander and Kahlhoefer, Felix: *Dark Higgs bosons at colliders*. *Prog. Part. Nucl. Phys.* **136** 104105 (2024). P3H-23-034, TTP23-018, [arXiv:2305.16169 \[hep-ph\]](#).
- E: Eguren, Jordi Folch and Klingel, Sophie and Stamou, Emmanuel and Tabet, Mustafa and Ziegler, Robert: *Flavor phenomenology of light dark vectors*. *JHEP* **08** 111 (2024). [arXiv:2405.00108 \[hep-ph\]](#).
- T: Ecker, Patrick: *Search for a dark Higgs boson produced in association with inelastic dark matter at the Belle II experiment*. (2024).
- E: Datta, Alakabha and Marfatia, Danny and Mukherjee, Lopamudra: *$B \rightarrow K \nu \bar{\nu}$, MiniBooNE and muon $g-2$ anomalies from a dark sector*. *Phys. Rev. D* **109** L031701 (2024). [arXiv:2310.15136 \[hep-ph\]](#).
- E: Curtin, David and Grewal, Jaipratap Singh: *Long Lived Particle Decays in MATHUSLA*. *Phys. Rev. D* **109** 075017 (2024). [arXiv:2308.05860 \[hep-ph\]](#).
- E: Coloma, Pilar and Martín-Albo, Justo and Urrea, Salvador: *Discovering long-lived particles at DUNE*. *Phys. Rev. D* **109** 035013 (2024). IFT-UAM/CSIC-23-111, IFIC/23-40, FTUV-23-0823.4331, [arXiv:2309.06492 \[hep-ph\]](#).
- E: Chun, Eung Jin and Jyoti Das, Suruj and He, Minxi and Jung, Tae Hyun and Sun, Jin: *Cogenesis by a sliding pNGB with symmetry non-restoration*. (2024). CTPU-PTC-24-16, [arXiv:2406.04180 \[hep-ph\]](#).
- E: Cheung, Kingman and Kim, Yongkyu and Kwon, Youngjoon and Ouseph, C. J. and Soffer, Abner and Wang, Zeren Simon: *Probing dark photons from a light scalar at Belle II*. *JHEP* **05** 094 (2024). [arXiv:2401.03168 \[hep-ph\]](#).
- E: Bertuzzo, Enrico and Frigerio, Michele: *Two portals to GeV sterile neutrinos : dipole versus mixing*. (2024). [arXiv:2412.10101 \[hep-ph\]](#).
- E: Berbig, Maximilian: *Diraxiogenesis*. *JHEP* **01** 061 (2024). [arXiv:2307.14121 \[hep-ph\]](#).
- E: Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* **10** 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E: Bao, Shou-shan and Gao, Wenhai and Zhang, Hong and Zhou, Jian: *Constraining axion-gluon coupling in mono-hadron processes*. *Phys. Rev. D* **110** 055008 (2024). [arXiv:2405.18215 \[hep-ph\]](#).
- E: Asai, Kento and Miyao, Coh and Okawa, Shohei and Tsumura, Koji: *New constraints on gauged $U(1)_{L_\mu - L_\tau}$ models via $Z - Z$ mixing*. *JHEP* **12** 018 (2024). KYUSHU-HET-280, KEK-TH-2597, [arXiv:2401.17613 \[hep-ph\]](#).
- E: Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E: Andreev, Yu. M. and others: *50 GeV π^- in, nothing out: a sensitive probe of invisible η and η' decays with NA64h*. (2024). CERN-EP-2024-153, [arXiv:2406.01990 \[hep-ex\]](#).
- E: Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- E: Abdughani, Murat and Reyimuaji, Yakefu: *Constraining light dark matter and mediator with $B^+ \rightarrow K^+ \nu \bar{\nu}$ data*. *Phys. Rev. D* **110** 055013 (2024). [arXiv:2309.03706 \[hep-ph\]](#).
- E: Abdallah, Waleed and Ashry, Mustafa and Kawamura, Junichiro and Moursy, Ahmad: *Semivisible dark photon in a model with vectorlike leptons for the $(g-2)_e, \mu$ and W -boson mass anomalies*. *Phys. Rev. D* **109** 015031 (2024). CTPU-PTC-23-32, [arXiv:2308.05691 \[hep-ph\]](#).
- E: Zhevlakov, Alexey S. and Kirpichnikov, Dmitry V. and Gninenko, Sergei N. and Kuleshov, Sergey and Lyubovitskij, Valery E.: *Probing invisible vector meson decay mode with the hadronic beam in the NA64 experiment at SPS CERN*. *Phys. Rev. D* **108** 115005 (2023). [arXiv:2309.09347 \[hep-ph\]](#).
- T: Wang, Ruoquan Isaac: *Electroweak (-Like) Phase Transitions: Baryogenesis, Strong CP, and Light Particles*. (2023).
- T: Schnubel, Marvin: *Two applications of effective field theory: factorisation of $gg \rightarrow h$ in SCET & flavour physics of ALPs*. [doi:10.25358/openscience-9558](#) (2023).
- T: Rai, Mudit: *An enquiry into dark matter physics*. (2023).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *A study of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay*. *JHEP* **09** 040 (2023). CERN-EP-2023-069, [arXiv:2304.12271 \[hep-ex\]](#).
- T: Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.

- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Harigaya, Keisuke and Wang, Isaac R.: *Baryogenesis in a parity solution to the strong CP problem*. *JHEP* **11** 189 (2023). [arXiv:2210.16207 \[hep-ph\]](#).
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *ALP Production in Weak Mesonic Decays*. *Fortsch. Phys.* **71** 2200192 (2023). [arXiv:2211.08343 \[hep-ph\]](#).
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle*. *Proceedings of Science CKM2021* **014** (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86** 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- T:** González-López, Manuel: *Heavy neutrinos: The chosen ones to bring balance to physics*. (2023). [arXiv:2409.03813 \[hep-ph\]](#).
- E:** Fernández-Martínez, Enrique and González-López, Manuel and Hernández-García, Josu and Hostert, Matheus and López-Pavón, Jacobo: *Effective portals to heavy neutral leptons*. *JHEP* **09** 001 (2023). FTUV-23-0303.1224, IFIC/23-09, [arXiv:2304.06772 \[hep-ph\]](#).
- E:** Ferber, Torben and Filimonova, Anastasiia and Schäfer, Ruth and Westhoff, Susanne: *Displaced or invisible? ALPs from B decays at Belle II*. *JHEP* **04** 131 (2023). P3H-22-005, Nikhef 2022-001, [arXiv:2201.06580 \[hep-ph\]](#).
- T:** Dreyer, Sascha Simon: *Search for a long-lived spin-0 particle in $b \rightarrow s$ quark transitions at the Belle II experiment*. (2023).
- E:** Dreiner, Herbi K. and Köhler, Dominik and Nangia, Saurabh and Schürmann, Martin and Wang, Zeren Simon: *Recasting bounds on long-lived heavy neutral leptons in terms of a light supersymmetric R-parity violating neutralino*. *JHEP* **08** 058 (2023). BONN-TH-2023-06, [arXiv:2306.14700 \[hep-ph\]](#).
- E:** Csaki, Csaba and Ismail, Ameen and Ruhdorfer, Maximilian and Tooby-Smith, Joseph: *Higgs squared*. *JHEP* **04** 082 (2023). [arXiv:2210.02456 \[hep-ph\]](#).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- T:** Berbig, Maximilian: *Solving all the problems of our universe, one neutrino mass model at a time*. (2023).
- E:** Adachi, I. and others, Belle-II Collaboration: *Search for a long-lived spin-0 mediator in $b \rightarrow s$ transitions at the Belle II experiment*. *Phys. Rev. D* **108** L111104 (2023). Belle II Preprint 2023-009, KEK Preprint 2023-7, [arXiv:2306.02830 \[hep-ex\]](#).
- E:** Bauer, Martin and Rostagni, Guillaume and Spinner, Jonas: *Axion-Higgs portal*. *Phys. Rev. D* **107** 015007 (2023). IPPP/22/45, TTP22-043, [arXiv:2207.05762 \[hep-ph\]](#).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities*. *JHEP* **08** 092 (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Afik, Yoav and Döbrich, Babette and Jerhot, Jan and Soreq, Yotam and Tobioka, Kohsaku: *Probing long-lived axions at the KOTO experiment*. *Phys. Rev. D* **108** 055007 (2023). IRMP-CP3-23-11, IRMP-CP3-23-10, MPP-2023-40, KEK-TH-2499, [arXiv:2303.01521 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and Hostert, Matheus and Massaro, Daniele and Pascoli, Silvia: *Semi-Visible Dark Photon Phenomenology at the GeV Scale*. *Phys. Rev. D* **108** 015032 (2023). CERN-TH-2023-019, FERMILAB-PUB-23-054-T, IRMP-CP3-23-08, [arXiv:2302.05410 \[hep-ph\]](#).
- E:** Schuster, Philip and Toro, Natalia and Zhou, Kevin: *Probing invisible vector meson decays with the NA64 and LDMX experiments*. *Phys. Rev. D* **105** 035036 (2022). SLAC-PUB-17635, [arXiv:2112.02104 \[hep-ph\]](#).
- E:** Sakurai, Kodai and Yin, Wen: *Phenomenology of CP-even ALP*. *JHEP* **04** 113 (2022). TU-1138, [arXiv:2111.03653 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- E:** Lin, Chieh, KOTO Collaboration: *Status of the $K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$ Search at the KOTO Experiment*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021*. *Proceedings of Science DISCRETE2020* **2021** 069 (2022).
- T:** Keats, Abigail R.: *Cosmology and light particles in scalar and neutrino portal extensions of the Standard Model*. (2022).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).

- E:** Harigaya, Keisuke and Wang, Isaac R.: *First-Order Electroweak Phase Transition and Baryogenesis from a Naturally Light Singlet Scalar*. (2022). CERN-TH-2022-107, [arXiv:2207.02867 \[hep-ph\]](#).
- E:** Hara, Tomoya and Kanemura, Shinya and Katayose, Taisuke: *Is light thermal scalar dark matter possible?*. *Phys. Rev. D* **105** 035035 (2022). OU-HET-1104, [arXiv:2109.03553 \[hep-ph\]](#).
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *Revisiting $K \rightarrow \pi a$ decays*. *Eur. Phys. J. C* **82** 192 (2022). [arXiv:2106.05910 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- E:** Coloma, Pilar and Hernández, Pilar and Urrea, Salvador: *New bounds on axion-like particles from MicroBooNE*. *JHEP* **08** 025 (2022). [arXiv:2202.03447 \[hep-ph\]](#).
- A:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN*. doi:10.17635/lancaster/thesis/1650 (2022).
- E:** Ablikim, M. and others, BESIII Collaboration: *Search for invisible decays of the Λ baryon*. *Phys. Rev. D* **105** L071101 (2022). [arXiv:2110.06759 \[hep-ex\]](#).
- E:** Jia, S. and others, Belle Collaboration: *Search for a light Higgs boson in single-photon decays of $\Upsilon(1S)$ using $\Upsilon(2S) \rightarrow \pi^+ \pi^- \Upsilon(1S)$ tagging method*. *Phys. Rev. Lett.* **128** 081804 (2022). Belle Preprint 2021-30; KEK Preprint 2021-35, [arXiv:2112.11852 \[hep-ex\]](#).
- E:** Bauer, Martin and Neubert, Matthias and Renner, Sophie and Schnubel, Marvin and Thamm, Andrea: *Flavor probes of axion-like particles*. *JHEP* **09** 056 (2022). MITP/21-025, CERN-TH-2021-148, IPPP/21/37, [arXiv:2110.10698 \[hep-ph\]](#).
- E:** Batell, Brian and others: *Dark Sector Studies with Neutrino Beams*. (2022). FERMILAB-FN-1180-ND-T, [arXiv:2207.06898 \[hep-ph\]](#).
- E:** Batell, Brian and Blinov, Nikita and Hearty, Christopher and McGehee, Robert: *Exploring Dark Sector Portals with High Intensity Experiments*. (2022). [arXiv:2207.06905 \[hep-ph\]](#).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- T:** Smith, Paul: *Beauty from Senselessness: Searching for Signals of Beyond the Standard Model Physics in a Complex World..* doi:10.22215/etd/2021-14616 (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **06** 093 (2021). [arXiv:2103.15389 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. *Phys. Lett. B* **816** 136259 (2021). CERN-EP-2021-018, [arXiv:2101.12304 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for a feebly interacting particle X in the decay $K^+ \rightarrow \pi^+ X$* . *JHEP* **03** 058 (2021). CERN-EP-2020-227, [arXiv:2011.11329 \[hep-ex\]](#).
- T:** Linster, Matthias Christian: *Phenomenology of Light Particles on Earth and in the Sky*. (2021).
- E:** Li, Tong and Ma, Xiao-Dong and Schmidt, Michael A. and Zhang, Rui-Jia: *Implication of $J/\psi \rightarrow (\gamma+)invisible$ for the effective field theories of neutrino and dark matter*. *Phys. Rev. D* **104** 035024 (2021). CPPC-2021-05, [arXiv:2104.01780 \[hep-ph\]](#).
- E:** Kang, Zhaofeng and Shigekami, Yoshihiro: *$(g-2)_\mu$ versus $K \rightarrow \pi + E_{miss}$ induced by the $(B-L)_{23}$ boson*. *JHEP* **04** 238 (2021). [arXiv:2008.09793 \[hep-ph\]](#).
- E:** Ema, Yohei and Sala, Filippo and Sato, Ryosuke: *Neutrino experiments probe hadrophilic light dark matter*. *SciPost Phys.* **10** 072 (2021). [arXiv:2011.01939 \[hep-ph\]](#).
- A:** Duk, V., NA62 Collaboration: *Rare decays from NA62*. *Il Nuovo Cimento C* **44** 176 (2021).
- E:** Camalich, Jorge Martin and Terol-Calvo, Jorge and Tolos, Laura and Ziegler, Robert: *Supernova Constraints on Dark Flavored Sectors*. *Phys. Rev. D* **103** L121301 (2021). [arXiv:2012.11632 \[hep-ph\]](#).
- E:** Batell, Brian and Freitas, Ayres and Ismail, Ahmed and McKeen, David and Rai, Mudit: *Renormalizable models of flavor-specific scalars*. *Phys. Rev. D* **104** 115032 (2021). PITT-PACC-2114, [arXiv:2107.08059 \[hep-ph\]](#).
- E:** Archer-Smith, Paul and Zhang, Yue: *Higgs Portal From The Atmosphere To Hyper-K*. *Phys. Lett. B* **817** 136309 (2021). [arXiv:2005.08980 \[hep-ph\]](#).
- T:** Alvey, James: *How do you see in the dark?*. (2021).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
78. Volpe, R. and others: *The role of the NA62 RICH in the $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ measurement*. *Nucl. Instrum. Meth. A* **952** 161802 (2020).
- 3 Citations:
- A:** Pepe, Monica, A62 Collaboration: *Performance of the NA62 ring imaging Cherenkov detector*. *Nucl. Instrum. Meth. A* **958** 162026 (2020).
- A:** Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH*. *JINST* **15** P10025 (2020). [arXiv:2009.07581 \[physics.ins-det\]](#).
- A:** Volpe, Roberta, NA62 Collaboration: *Physics beyond SM with kaons from NA62*. (2019). [arXiv:1910.09422 \[hep-ex\]](#).

77. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays to positrons*. *Phys. Lett. B* 807 135599 (2020). [arXiv:2005.09575 \[hep-ex\]](#).

144 Citations:

- E:** Wang, Zeren Simon and Zhang, Yu and Liu, Wei: *Long-lived sterile neutrinos from an axionlike particle at Belle II*. *Phys. Rev. D* 111 035010 (2025). [arXiv:2410.00491 \[hep-ph\]](#).
- E:** Wang, Zeren Simon and Zhang, Yu and Liu, Wei: *Searching for heavy neutral leptons coupled to axion-like particles at the LHC far detectors and SHiP*. *JHEP* 01 070 (2025). [arXiv:2409.18424 \[hep-ph\]](#).
- E:** Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons*. *JHEP* 02 140 (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- E:** Drewes, Marco and Georis, Yannis and Klarić, Juraj and Wendels, Antony: *On the collider-testability of the type-I seesaw model with 3 right-handed neutrinos*. *JHEP* 03 176 (2025). IRMP-CP3-24-21, ZTF-EP-24-11, [arXiv:2407.13620 \[hep-ph\]](#).
- E:** de Vries, Jordy and Dreiner, Herbi K. and Groot, Jelle and Günther, Julian Y. and Wang, Zeren Simon: *Probing light sterile neutrinos in left-right symmetric models with displaced vertices and neutrinoless double beta decay*. *JHEP* 04 007 (2025). [arXiv:2406.15091 \[hep-ph\]](#).
- E:** De Romeri, Valentina and Perez-Gonzalez, Yuber F. and Tolino, Agnese: *Primordial black hole probes of heavy neutral leptons*. *JCAP* 04 018 (2025). IPPP/24/23, [arXiv:2405.00124 \[hep-ph\]](#).
- E:** Hayrapetyan, Aram and others, CMS Collaboration: *Search for long-lived heavy neutral leptons in proton-proton collision events with a lepton-jet pair associated with a secondary vertex at $\sqrt{s} = 13$ TeV*. *JHEP* 02 036 (2025). CMS-EXO-21-011, CERN-EP-2024-161, [arXiv:2407.10717 \[hep-ex\]](#).
- E:** Chauhan, Garv and Horiuchi, Shunsaku and Huber, Patrick and Shoemaker, Ian M.: *Low-energy supernovae bounds on sterile neutrinos*. *JCAP* 03 052 (2025). [arXiv:2309.05860 \[hep-ph\]](#).
- E:** Capozzi, Francesco and Dutta, Bhaskar and Gurung, Gajendra and Jang, Wooyoung and Shoemaker, Ian M. and Thompson, Adrian and Yu, Jaehoon: *Enhancing the sensitivity to seesaw mechanism predictions in gauged B-L scenarios*. *Phys. Rev. D* 111 055036 (2025). [arXiv:2410.08981 \[hep-ph\]](#).
- E:** Bryman, Douglas and Shrock, Robert: *Pion Decay*. (2025). [arXiv:2502.18384 \[hep-ph\]](#).
- E:** Borah, Debasish and Dasgupta, Arnab: *Electromagnetic leptogenesis with light-heavy sterile neutrinos*. (2025). [arXiv:2501.13150 \[hep-ph\]](#).
- E:** Bolton, Patrick D. and Deppisch, Frank F. and Kulkarni, Suchita and Majumdar, Chayan and Pei, Wenna: *Constraining the SMEFT Extended with Sterile Neutrinos at FCC-ee*. (2025). [arXiv:2502.06972 \[hep-ph\]](#).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN. 8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022 071* (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* 110 030001 (2024).
- T:** Nangia, Saurabh: *Towards Model-independent Predictions for R-parity Violating Supersymmetry*. (2024).
- E:** Murgui, Clara and Plestid, Ryan: *Coleman-Weinberg dynamics of ultralight scalar dark matter and GeV-scale right-handed neutrinos*. *JHEP* 08 168 (2024). CALT-TH/2023-016, [arXiv:2306.13799 \[hep-ph\]](#).
- T:** Mckelvey, Thomas: *Novel Resonant Mechanisms for Generating Matter-Antimatter Asymmetry in Minimal Extensions of the Standard Model*. (2024).
- T:** Massaro, Daniele: *From dark matter to dark sectors: exploring signatures at multiple scales*. [doi:10.48676/unibo/amsdottorato/11240](#) (2024).
- E:** Marcos, Marta Burgos and de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *ALPs and HNLs at LHC and Muon Colliders: Uncovering New Couplings and Signals*. [doi:10.21468/SciPostPhys.18.3.084](#) (2024). IFT-UAM/CSIC-24-103, [arXiv:2407.14970 \[hep-ph\]](#).
- E:** Lu, Ye and Mao, Ying-nan and Wang, Kechen and Wang, Zeren Simon: *LAYCAST: LAYered CAvern Surface Tracker at future electron-positron colliders*. (2024). [arXiv:2406.05770 \[hep-ph\]](#).
- T:** Li, Jiaoyang: *Measuring dark neutrinos and light using external and internal components of LArTPCs*. [doi:10.7488/era/5533](#) (2024). [FERMILAB-THESIS-2024-19](#).
- E:** Li, Jiale and Liu, Wei and Sun, Hao: *Z' mediated right-handed neutrinos from meson decays at the FASER*. *Phys. Rev. D* 109 035022 (2024). [arXiv:2309.05020 \[hep-ph\]](#).
- T:** Köhler, Dominik: *Various Phenomenological Aspects of the R-parity Violating MSSM*. (2024).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN. International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042* (2024).
- E:** Günther, Julian Y. and de Vries, Jordy and Dreiner, Herbi K. and Wang, Zeren Simon and Zhou, Guanghui: *Long-lived neutral fermions at the DUNE near detector*. *JHEP* 01 108 (2024). [arXiv:2310.12392 \[hep-ph\]](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* 47 86 (2024).

- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment.* (2024). CERN-THESIS-2024-332.
- E:** Fang, Dong-Liang and Li, Yu-Feng and Zhang, Yi-Yu and Zhu, Jing-Yu: *Neutrinoless double beta decay in the minimal type-I seesaw model: mass-dependent nuclear matrix element, current limits and future sensitivities.* *JHEP* 08 217 (2024). [arXiv:2404.12316 \[hep-ph\]](#).
- E:** Dubinin, M. N. and Kazarkin, D. M. and Fedotova, E. Yu.: *Nonstandard Types of Mixing and Dark Matter in Models with Heavy Neutral Leptons.* *Moscow Univ. Phys. Bull.* 79 408–417 (2024).
- E:** Dubinin, M. N. and Kazarkin, D. M.: *Lepton universality in a model with three generations of sterile Majorana neutrinos.* *Phys. Rev. D* 109 055004 (2024). [arXiv:2212.11310 \[hep-ph\]](#).
- E:** Drewes, Marco and Georis, Yannis and Hagedorn, Claudia and Klaric, Juraj: *Low-scale seesaw with flavour and CP symmetries – from colliders to leptogenesis.* (2024). [arXiv:2412.10254 \[hep-ph\]](#).
- E:** Domingo, Florian and Günther, Julian and Kim, Jong Soo and Wang, Zeren Simon: *A C++ program for estimating detector sensitivities to long-lived particles: displaced decay counter.* *Eur. Phys. J. C* 84 642 (2024). [arXiv:2308.07371 \[hep-ph\]](#).
- E:** de Vries, J. and Drewes, M. and Georis, Y. and Klarić, J. and Plakkot, V.: *Confronting the low-scale seesaw and leptogenesis with neutrinoless double beta decay.* (2024). [arXiv:2407.10560 \[hep-ph\]](#).
- E:** Dekens, W. and de Vries, J. and Castillo, D. and Menéndez, J. and Mereghetti, E. and Plakkot, V. and Soriano, P. and Zhou, G.: *Neutrinoless double beta decay rates in the presence of light sterile neutrinos.* *JHEP* 09 201 (2024). LA-UR-24-21117, INT-PUB-24-007, [arXiv:2402.07993 \[hep-ph\]](#).
- E:** Das, Debashree Priyadarsini and Mishra, Sasmita: *Study of neutrinoless double beta decay in the Standard Model extended with sterile neutrinos.* *Eur. Phys. J. C* 84 683 (2024). [arXiv:2310.13353 \[hep-ph\]](#).
- E:** Curtin, David and Grewal, Jaipratap Singh: *Long Lived Particle Decays in MATHUSLA.* *Phys. Rev. D* 109 075017 (2024). [arXiv:2308.05860 \[hep-ph\]](#).
- E:** Chatterjee, Animesh and Hernandez-Garcia, Josu and De Roeck, Albert: *Heavy Neutral Lepton searches at an ICARUS-like detector using NuMI beam.* doi:10.1140/epjc/s10052-025-13846-2 (2024). [arXiv:2408.03383 \[hep-ph\]](#).
- T:** Canning, James Alexander Lane: *Sensitivities of Beta Decay NeutrinoExperiments to New Physics.* (2024).
- E:** Borah, Debasish and Das, Pritam and Mahapatra, Satyabrata and Sahu, Narendra: *Light thermal dark matter via type-I seesaw portal.* (2024). [arXiv:2401.01639 \[hep-ph\]](#).
- T:** Bird, Gareth: *Commissioning of the Level-I Calorimeter trigger Phase-I upgrade and searches for High-Mass Heavy Neutral Leptons in the ATLAS experiment at the LHC.* (2024).
- E:** Beltrán, Rebeca and Günther, Julian and Hirsch, Martin and Titov, Arsenii and Wang, Zeren Simon: *Heavy neutral leptons from kaons in effective field theory.* *Phys. Rev. D* 109 115014 (2024). [arXiv:2309.11546 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62.* *JHEP* 10 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- T:** Appelt, Christian: *Extending the limits in the hunt for long-lived heavy neutral leptons with the ATLAS experiment at the Large Hadron Collider at CERN.* doi:10.18452/28639 (2024).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023.* *Eur. Phys. J. C* 84 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- A:** Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN. The 10th International Workshop on Chiral Dynamics.* *Proceedings of Science* CD2021 050 (2024).
- E:** Alves, Gustavo F. S. and Fong, Chee Sheng and Leal, Luigi P. S. and Zukanovich Funchal, Renata: *Limits on WR from Meson Decays.* *Phys. Rev. Lett.* 133 161802 (2024). FERMILAB-PUB-23-363-T-V, [arXiv:2307.04862 \[hep-ph\]](#).
- E:** Akita, Kensuke and Im, Sang Hui and Masud, Mehedi and Yun, Seokhoon: *Limits on heavy neutral leptons, Z bosons and majorons from high-energy supernova neutrinos.* *JHEP* 07 057 (2024). CTPU-PTC-23-55, [arXiv:2312.13627 \[hep-ph\]](#).
- E:** Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology.* *J. Phys. G* 51 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- T:** Vermassen, Basile: *Search for long-lived heavy neutral leptons in semileptonic final states.* (2023).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62.* *JINST* 18 C12018 (2023).
- T:** Silva, Pablo Candia Da: *Neutrinos in Supersymmetry and the Early Universe.* (2023).
- E:** Shrock, Robert: *Some Theoretical Aspects of Searches for Heavy Neutrino Emission in Kaon Decays.* *J. Phys. Conf. Ser.* 2446 012029 (2023).
- T:** Roach, Brandon Michael: *Novel X-Ray and Antinucleus Searches for Dark Matter.* (2023).
- E:** Plows, Komninos-John and Lu, Xianguo: *Modeling heavy neutral leptons in accelerator beamlines.* *Phys. Rev. D* 107 055003 (2023). [arXiv:2211.10210 \[hep-ph\]](#).
- E:** Krasnov, Igor: *HNL see-saw: lower mixing limit and pseudodegenerate state.* (2023). [arXiv:2307.01190 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments.* (2023). CERN-THESIS-2023-421.

- T:** Hinata, Atsushi: *Phenomenology of the Supersymmetric Standard Model with the Matter Triality*. (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle*. *Proceedings of Science CKM2021 014* (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E:** Gu, Haiyong and Mao, Ying-nan and Sun, Hao and Wang, Kechen: *Search for heavy Majorana neutrinos in the τ final state at proton-electron colliders*. *JHEP 09 152* (2023). [arXiv:2210.17050 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys. 86 016201* (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- T:** González-López, Manuel: *Heavy neutrinos: The chosen ones to bring balance to physics*. (2023). [arXiv:2409.03813 \[hep-ph\]](#).
- E:** Giffin, Pierce and Gori, Stefania and Tsai, Yu-Dai and Tuckler, Douglas: *Heavy neutral leptons at beam dump experiments of future lepton colliders*. *JHEP 04 046* (2023). UCI-HEP-TR-2022-11, FERMILAB-PUB-22-513-V, [arXiv:2206.13745 \[hep-ph\]](#).
- E:** Fischer, Oliver and Pattnaik, Baibhab and Zurita, José: *Testing Heavy Neutral Leptons in Cosmic Ray Beam Dump experiments*. *JHEP 07 193* (2023). IFIC/23-02, [arXiv:2301.07120 \[hep-ph\]](#).
- E:** Fernández-Martínez, Enrique and González-López, Manuel and Hernández-García, Josu and Hostert, Matheus and López-Pavón, Jacobo: *Effective portals to heavy neutral leptons*. *JHEP 09 001* (2023). FTUV-23-0303.1224, IFIC/23-09, [arXiv:2304.06772 \[hep-ph\]](#).
- E:** Dubinin, M. N. and Kazarkin, D. M.: *Improved Cosmological Bounds for Mixing Scenarios of Three Sterile Neutrino Generations*. *J. Exp. Theor. Phys. 137 814–825* (2023).
- E:** Dreiner, Herbi K. and Köhler, Dominik and Nangia, Saurabh and Schürmann, Martin and Wang, Zeren Simon: *Recasting bounds on long-lived heavy neutral leptons from mesons in a light supersymmetric R-parity violating neutralino*. *JHEP 08 058* (2023). BONN-TH-2023-06, [arXiv:2306.14700 \[hep-ph\]](#).
- E:** de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *Probing HNL-ALP couplings at colliders*. *Fortsch. Phys. 71 2300027* (2023). IFT-UAM-CSIC-22-152, [arXiv:2212.11290 \[hep-ph\]](#).
- T:** Da Silva, Pablo Candia: *Neutrinos in Supersymmetry and the Early Universe*. (2023).
- E:** Beltrán, Rebeca and Cottin, Giovanna and Helo, Juan Carlos and Hirsch, Martin and Titov, Arsenii and Wang, Zeren Simon: *Long-lived heavy neutral leptons from mesons in effective field theory*. *JHEP 01 015* (2023). FTUV-22-1005.8958, IFIC/22-27, [arXiv:2210.02461 \[hep-ph\]](#).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities*. *JHEP 08 092* (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Bai, Lingxiao and Mao, Ying-nan and Wang, Kechen: *Probing the mixing parameter $|V_{\tau N}|^2$ for heavy neutrinos*. *Phys. Rev. D 107 095008* (2023). [arXiv:2211.00309 \[hep-ph\]](#).
- E:** Asaka, Takehiko and Ishida, Hiroyuki and Tanaka, Kazuki: *Neutrinoless double beta decays tell nature of right-handed neutrinos*. *JHEP 07 062* (2023). KEK-TH-2292, [arXiv:2101.12498 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C 83 1122* (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Alonso-González, D. and Amaral, D. W. P. and Bariego-Quintana, A. and Cerdeño, D. and de los Rios, M.: *Measuring the sterile neutrino mass in spallation source and direct detection experiments*. *JHEP 12 096* (2023). IFT-UAM/CSIC-23-89, [arXiv:2307.05176 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Abdullahi, Asli M. and Hostert, Matheus and Massaro, Daniele and Pascoli, Silvia: *Semi-Visible Dark Photon Phenomenology at the GeV Scale*. *Phys. Rev. D 108 015032* (2023). CERN-TH-2023-019, FERMILAB-PUB-23-054-T, IRMP-CP3-23-08, [arXiv:2302.05410 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G 50 020501* (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- E:** Zhou, Guanghui: *Light sterile neutrinos and lepton-number-violating kaon decays in effective field theory*. *JHEP 06 127* (2022). [arXiv:2112.00767 \[hep-ph\]](#).
- E:** Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull. 77 148–151* (2022).
- T:** Sabti, Nashwan: *New Physics Through the Eyes of Big-Bang Nucleosynthesis*. (2022).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP 2022 083C01* (2022).
- E:** Nojiri, Mihoko M. and Sakaki, Yasuihito and Tobioka, Kohsaku and Ueda, Daiki: *First evaluation of meson and τ lepton spectra and search for heavy neutral leptons at ILC beam dump*. *JHEP 12 145* (2022). KEK-TH-2435, [arXiv:2206.13523 \[hep-ph\]](#).

- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams.* (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A:** Volpe, Roberta and others, NA62 Collaboration: *Search for K^+ decays to a lepton and invisible particles.* 7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. *Proceedings of Science DISCRETE2020-2021 056* (2022).
- A:** Jerhot, Jan and others, NA62 Collaboration: *NA62 results on Dark Sector searches.* *Frascati Phys. Ser.* 74 269–284 (2022).
- A:** Parkinson, Chris John and others, NA62 Collaboration: *Search for heavy neutral lepton production at the NA62 experiment.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021 686* (2022).
- E:** Moghaddam, Zahra Ghorbani, DUNE Collaboration: *Sensitivity to Heavy Neutral Leptons with the SAND detector at the DUNE ND complex.* (2022). [arXiv:2209.01899 \[hep-ex\]](#).
- E:** Klose, Philipp: *Factorizing hidden particle production rates.* *JHEP* 08 265 (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- E:** Hostert, Matheus and Pospelov, Maxim: *Novel multilepton signatures of dark sectors in light meson decays.* *Phys. Rev. D* 105 015017 (2022). FTPI-MINN-20-34, [arXiv:2012.02142 \[hep-ph\]](#).
- E:** Hinata, Atsushi: *Seesaw mechanism in the R-parity-violating supersymmetric standard model with the gauged flavor $U(1)X$ symmetry.* *PTEP* 2022 073B03 (2022). WU-HEP-21-06, [arXiv:2112.10337 \[hep-ph\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent.* (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Gu, Haiyong and Wang, Kechen: *Search for heavy Majorana neutrinos at electron-proton colliders.* *Phys. Rev. D* 106 015006 (2022). [arXiv:2201.12997 \[hep-ph\]](#).
- T:** Green, Patrick J.: *Light and Dark in Liquid Argon Time Projection Chamber Neutrino Detectors.* (2022). FERMILAB-THESIS-2022-29 .
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks.* (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- E:** Gorbunov, Dmitry and Krasnov, Igor and Suvorov, Sergey: *Revisiting PS191 limits on sterile neutrinos.* *Phys. Lett. B* 830 137173 (2022). INR-TH-2021-024, [arXiv:2112.06800 \[hep-ph\]](#).
- T:** Foppiani, Nicolò: *Testing explanations of short baseline neutrino anomalies.* (2022). FERMILAB-THESIS-2022-17 , [arXiv:2209.13455 \[hep-ex\]](#).
- E:** Fang, Dong-Liang and Li, Yu-Feng and Zhang, Yi-Yu: *Neutrinoless double beta decay in the minimal type-I seesaw model: How the enhancement or cancellation happens?.* *Phys. Lett. B* 833 137346 (2022). [arXiv:2112.12779 \[hep-ph\]](#).
- E:** Eijima, Shintaro and Shaposhnikov, Mikhail and Timiryasov, Inar: *Freeze-in and freeze-out generation of lepton asymmetries after baryogenesis in the ν MSM.* *JCAP* 04 049 (2022). [arXiv:2011.12637 \[hep-ph\]](#).
- E:** Drewes, Marco and Georis, Yannis and Klarić, Juraj: *Mapping the Viable Parameter Space for Testable Leptogenesis.* *Phys. Rev. Lett.* 128 051801 (2022). CP3-21-43, [arXiv:2106.16226 \[hep-ph\]](#).
- A:** Dias, Kerebay: *Search for Heavy Neutral Lepton Production in NA62#.* *Moscow Univ. Phys. Bull.* 77 220–222 (2022).
- E:** de Gouvêa, André and Fox, Patrick J. and Kayser, Boris J. and Kelly, Kevin J.: *Characterizing heavy neutral fermions via their decays.* *Phys. Rev. D* 105 015019 (2022). FERMILAB-PUB-21-453-T, NUHEP-TH/21-11, [arXiv:2109.10358 \[hep-ph\]](#).
- E:** da Silva, P. Candia and Karamitros, D. and McKelvey, T. and Pilaftsis, A.: *Tri-resonant leptogenesis in a seesaw extension of the Standard Model.* *JHEP* 11 065 (2022). [arXiv:2206.08352 \[hep-ph\]](#).
- A:** Corvino, M.: *Search for heavy neutral lepton production at the NA62 experiment.* *Nucl. Part. Phys. Proc.* 318-323 173–177 (2022).
- T:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN.* [doi:10.17635/lanaster/thesis/1650](#) (2022).
- E:** Bryman, Douglas and Cirigliano, Vincenzo and Crivellin, Andreas and Inguglia, Gianluca: *Testing Lepton Flavor Universality with Pion, Kaon, Tau, and Beta Decays.* *Ann. Rev. Nucl. Part. Sci.* 72 69–91 (2022). CERN-TH-2021-184, LA-UR-21-30608, ZU-TH 54/21, [arXiv:2111.05338 \[hep-ph\]](#).
- T:** Briano Olvera, Alejandro: *Búsqueda de Producción de Neutrinos Pesados en Decaimientos de Píon a Positrón.* (2022).
- E:** Batell, Brian and others: *Dark Sector Studies with Neutrino Beams.* (2022). FERMILAB-FN-1180-ND-T, [arXiv:2207.06898 \[hep-ph\]](#).
- E:** Batell, Brian and Blinov, Nikita and Hearty, Christopher and McGehee, Robert: *Exploring Dark Sector Portals with High Intensity Experiments.* (2022). [arXiv:2207.06905 \[hep-ph\]](#).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62.* (2022). CERN-THESIS-2022-272.
- E:** Argüelles, Carlos A. and Foppiani, Nicolò and Hostert, Matheus: *Heavy neutral leptons below the kaon mass at hodoscopic neutrino detectors.* *Phys. Rev. D* 105 095006 (2022). [arXiv:2109.03831 \[hep-ph\]](#).

- E:** Urquijo, Phillip: *Beauty 2020 Workshop Summary*. [19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020 064](#) (2021).
- E:** Tastet, Jean-Loup and Ruchayskiy, Oleg and Timiryasov, Inar: *Reinterpreting the ATLAS bounds on heavy neutral leptons in a realistic neutrino oscillation model*. [JHEP 12 182](#) (2021). [arXiv:2107.12980 \[hep-ph\]](#).
- T:** Tastet, Jean-Loup: *Searching for Heavy Neutral Leptons at CERN*. (2021).
- E:** Tastet, Jean-Loup and Goudzovski, Evgueni and Timiryasov, Inar and Ruchayskiy, Oleg: *Projected NA62 sensitivity to heavy neutral lepton production in $K^+ \rightarrow \pi^0 e^+ N$ decays*. [Phys. Rev. D 104 055005](#) (2021). [arXiv:2008.11654 \[hep-ph\]](#).
- T:** Syvolap, Vsevolod: *Astrophysical and cosmological constraints on parameters of hypothetical particles*. (2021).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- A:** Ruggiero, Giuseppe: *Rare decays of K mesons*. [40th International Conference on High Energy physics. Proceedings of Science ICHEP2020 036](#) (2021).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](#) (2021).
- T:** Ovchinnikov, M.: *Searches for new physics in the laboratory and in space*. (2021).
- T:** Neumair, Birgit Marina Monika: *Data Analysis in Sterile Neutrino Searches*. (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. [Phys. Lett. B 816 136259](#) (2021). CERN-EP-2021-018, [arXiv:2101.12304 \[hep-ex\]](#).
- A:** Minucci, Elisa, NA62 Collaboration: *Recent results from the NA62 experiment*. [19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020 058](#) (2021).
- E:** Lanfranchi, Gaia and Pospelov, Maxim and Schuster, Philip: *The Search for Feebly Interacting Particles*. [Ann. Rev. Nucl. Part. Sci. 71 279–313](#) (2021). [arXiv:2011.02157 \[hep-ph\]](#).
- E:** Klarić, Juraj and Shaposhnikov, Mikhail and Timiryasov, Inar: *Reconciling resonant leptogenesis and baryogenesis via neutrino oscillations*. [Phys. Rev. D 104 055010](#) (2021). [arXiv:2103.16545 \[hep-ph\]](#).
- E:** Kelly, Kevin James and Machado, Pedro A. N.: *MicroBooNE experiment, NuMI absorber, and heavy neutral leptons*. [Phys. Rev. D 104 055015](#) (2021). FERMILAB-PUB-21-277-T, [arXiv:2106.06548 \[hep-ph\]](#).
- T:** Jae Sung, Kim: *Search for heavy neutrinos in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS detector at the LHC*. (2021).
- E:** Jaeckel, Joerg and Yin, Wen: *Boosted Neutrinos and Relativistic Dark Particles as Messengers from Reheating*. [JCAP 02 044](#) (2021). [arXiv:2007.15006 \[hep-ph\]](#).
- E:** Gelmini, Graciela B. and Kusenko, Alexander and Takhistov, Volodymyr: *Possible Hints of Sterile Neutrinos in Recent Measurements of the Hubble Parameter*. [JCAP 06 002](#) (2021). IPMU19-0090, [arXiv:1906.10136 \[astro-ph.CO\]](#).
- E:** Fong, Chee Sheng and Rahat, Moinul Hossain and Saad, Shaikh: *Low-scale resonant leptogenesis in $SU(5)$ GUT with $T13$ family symmetry*. [Phys. Rev. D 104 095028](#) (2021). [arXiv:2103.14691 \[hep-ph\]](#).
- E:** Coloma, Pilar and Fernández-Martínez, Enrique and González-López, Manuel and Hernández-García, Josu and Pavlovic, Zarko: *GeV-scale neutrinos: interactions with mesons and DUNE sensitivity*. [Eur. Phys. J. C 81 78](#) (2021). FERMILAB-PUB-20-269-ND, [arXiv:2007.03701 \[hep-ph\]](#).
- E:** Chacko, Zackaria and Fox, Patrick J. and Harnik, Roni and Liu, Zhen: *Neutrino Masses from Low Scale Partial Compositeness*. [JHEP 03 112](#) (2021). FC-5657, FERMILAB-PUB-20-238-T, [arXiv:2012.01443 \[hep-ph\]](#).
- E:** Ceccucci, Augusto: *Rare Kaon Decays*. [Ann. Rev. Nucl. Part. Sci. 71 113–137](#) (2021).
- T:** Boyarsky, Alexey and Ovchinnikov, Maksym and Ruchayskiy, Oleg and Syvolap, Vsevolod: *Improved big bang nucleosynthesis constraints on heavy neutral leptons*. [Phys. Rev. D 104 023517](#) (2021). [arXiv:2008.00749 \[hep-ph\]](#).
- E:** Bondarenko, Kyrylo and Boyarsky, Alexey and Klaric, Juraj and Mikulenko, Oleksii and Ruchayskiy, Oleg and Syvolap, Vsevolod and Timiryasov, Inar: *An allowed window for heavy neutral leptons below the kaon mass*. [JHEP 07 193](#) (2021). [arXiv:2101.09255 \[hep-ph\]](#).
- E:** Boiarska, Iryna and Boyarsky, Alexey and Mikulenko, Oleksii and Ovchinnikov, Maksym: *Constraints from the CHARM experiment on heavy neutral leptons with tau mixing*. [Phys. Rev. D 104 095019](#) (2021). [arXiv:2107.14685 \[hep-ph\]](#).
- E:** Asaka, Takehiko and Ishida, Hiroyuki and Tanaka, Kazuki: *What if a specific neutrinoless double beta decay is absent?*. [PTEP 2021 063B01](#) (2021). KEK-TH-2287, [arXiv:2012.13186 \[hep-ph\]](#).
- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions*. [JHEP 09 063](#) (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Acciarri, R. and others, ArgoNeuT Collaboration: *New Constraints on Tau-Coupled Heavy Neutral Leptons with Masses $m_N = 280–970$ MeV*. [Phys. Rev. Lett. 127 121801](#) (2021). FERMILAB-PUB-21-296-ND-T, [arXiv:2106.13684 \[hep-ex\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. [Eur. Phys. J. C 81 1015](#) (2021). [arXiv:2102.12143 \[hep-ph\]](#).

- E: Abdullahi, Asli and Hostert, Matheus and Pascoli, Silvia: *A dark seesaw solution to low energy anomalies: Mini-BooNE, the muon ($g\mathbf{V}s-\mathbf{V}s2$), and BaBar*. *Phys. Lett. B* **820** 136531 (2021). FTPI-MINN-20-25, IPPP/20/32, FTPI-MINN-20-25, IPPP/20/32, [arXiv:2007.11813 \[hep-ph\]](#).
- T: Sabti, Nashwan and Magalich, Andrii and Filimonova, Anastasiia: *An Extended Analysis of Heavy Neutral Leptons during Big Bang Nucleosynthesis*. *JCAP* **11** 056 (2020). KCL-2020-09, [arXiv:2006.07387 \[hep-ph\]](#).
- E: Gorbunov, Dmitry and Krasnov, Igor and Kudenko, Yury and Suvorov, Sergey: *Heavy Neutral Leptons from kaon decays in the SHiP experiment*. *Phys. Lett. B* **810** 135817 (2020). INR-TH-2020-014, [arXiv:2004.07974 \[hep-ph\]](#).
76. Cortina Gil, Eduardo and others, NA62 Collaboration: *An investigation of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **11** 042 (2020). [arXiv:2007.08218 \[hep-ex\]](#).

100 Citations:

- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *First detection of a tagged neutrino in the NA62 experiment*. *Phys. Lett. B* **863** 139345 (2025). CERN-EP-2024-324, [arXiv:2412.04033 \[hep-ex\]](#).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio*. *JHEP* **02** 191 (2025). CERN-EP-2024-343, [arXiv:2412.12015 \[hep-ex\]](#).
- E: Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data*. (2025). LAPTH-008/25, [arXiv:2503.05865 \[hep-ph\]](#).
- A: Ceoletta, Marco, NA62 Collaboration: *Searches for Lepton Flavour and Number Violation and Hidden Sector Particles at NA62. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 133* (2025).
- E: Cárdenas, Karen Macías and Mohlabeng, Gopolang and Vincent, Aaron C.: *Global fit to loopy dark matter and neutrino masses*. *Phys. Rev. D* **111** 055024 (2025). IFT-UAM/CSIC-24-156, UCI-HEP-TR-2024-17, [arXiv:2411.03470 \[hep-ph\]](#).
- E: Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- A: Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN*. *Acta Phys. Polon. Supp.* **17** 6–A18 (2024).
- E: Roy, Arnab and Valencia, German: *High- p_T LHC constraints on SMEFT operators affecting rare kaon and hyperon decays*. (2024). [arXiv:2410.05859 \[hep-ph\]](#).
- A: Romano, Angela: *Status and Prospects of $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO. 20th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2023 050* (2024).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- T: Marzocca, David and Nardecchia, Marco and Stanzione, Alfredo and Toni, Claudio: *Implications of $B \rightarrow K \nu \bar{\nu}$ under rank-one flavor violation hypothesis*. *Eur. Phys. J. C* **84** 1217 (2024). [arXiv:2404.06533 \[hep-ph\]](#).
- E: Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *$K \rightarrow \pi \nu \bar{\nu}$ spectra and NA62 interpretation*. (2024). [arXiv:2405.10905 \[hep-ph\]](#).
- E: Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ distributions*. *Eur. Phys. J. C* **84** 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- E: Fridell, Kåre: *Leptogenesis and neutrino mass with scalar leptoquarks*. (2024). KEK-TH-2665, [arXiv:2411.03282 \[hep-ph\]](#).
- E: Fridell, Kåre and Gráf, Lukáš and Harz, Julia and Hati, Chandan: *Probing lepton number violation: a comprehensive survey of dimension-7 SMEFT*. *JHEP* **05** 154 (2024). KEK-TH-2486, N3AS-23-014, MITP-23-027, ULB-TH/23-06, [arXiv:2306.08709 \[hep-ph\]](#).
- T: Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- T: de Martino, Bianca: *Experimental proof of principle of the Neutrino Tagging at NA62*. (2024). CERN-THESIS-2023-423, tel-04632628.
- E: Davoudiasl, Hooman and Schnubel, Marvin: *Bringing the Peccei-Quinn mechanism down to Earth*. *Phys. Rev. D* **110** 075014 (2024). [arXiv:2406.19455 \[hep-ph\]](#).
- A: Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN. The 10th International Workshop on Chiral Dynamics. Proceedings of Science CD2021 050* (2024).
- E: Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- T: Shain Poruvelil, Sachin: *Aspects of strong and new CP violation*. (2023).
- E: Schacht, Stefan: *Kaon Decays beyond the Standard Model*. (2023). [arXiv:2305.06267 \[hep-ph\]](#).

- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Improved calorimetric particle identification in NA62 using machine learning techniques*. *JHEP* **11** 138 (2023). CERN-EP-2023-066, [arXiv:2304.10580 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Performance of the NA62 trigger system*. *JHEP* **03** 122 (2023). CERN-EP-2022-165, [arXiv:2208.00897 \[hep-ex\]](#).
- E:** Marchevski, Radoslav: *First thought on a high-intensity KS experiment*. *J. Phys. Conf. Ser.* **2446** 012035 (2023). [arXiv:2301.06801 \[hep-ex\]](#).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E:** He, Xiao-Gang and Ma, Xiao-Dong and Valencia, German: *FCNC B and K meson decays with light bosonic Dark Matter*. *JHEP* **03** 037 (2023). [arXiv:2209.05223 \[hep-ph\]](#).
- T:** Ghosh, Mitrajyoti: *Advancements in flavor and neutrino physics*. [doi:10.7298/70n6-b507](#) (2023).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC*. *J. Phys. G* **50** 030501 (2023). UCL-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Buras, Andrzej J.: *Standard Model predictions for rare K and B decays without new physics infection*. *Eur. Phys. J. C* **83** 66 (2023). [arXiv:2209.03968 \[hep-ph\]](#).
- A:** Brizioli, Francesco, NA62 Collaboration: *Measurement of the very rare $K^+ \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012002 (2023).
- E:** Bauer, Martin and Rostagni, Guillaume and Spinner, Jonas: *Axion-Higgs portal*. *Phys. Rev. D* **107** 015007 (2023). IPPP/22/45, TTP22-043, [arXiv:2207.05762 \[hep-ph\]](#).
- E:** Altmannshofer, Wolfgang and Dror, Jeff A. and Gori, Stefania: *New Opportunities for Detecting Axion-Lepton Interactions*. *Phys. Rev. Lett.* **130** 241801 (2023). [arXiv:2209.00665 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A:** Fiorenza, Renato and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN. The 22nd International Workshop on Neutrinos from Accelerators*. *Proceedings of Science NuFact2021* 176 (2022).
- A:** Zamkovský, Michal and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021*. *Proceedings of Science DISCRETE2020-2021* 070 (2022).
- E:** Marzocca, David and Trifinopoulos, Sokratis and Venturini, Elena: *From B-meson anomalies to Kaon physics with scalar leptoquarks*. *Eur. Phys. J. C* **82** 320 (2022). TUM-HEP-1344-21, [arXiv:2106.15630 \[hep-ph\]](#).
- A:** Kucerova, Zuzana: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *Nucl. Part. Phys. Proc.* **318-323** 160–164 (2022).
- T:** Kriewald, Jonathan: *Indirect searches for New Physics via flavour observables*. [doi:10.48550/arxiv.2202.14015](#) (2022).
- E:** Hostert, Matheus and Pospelov, Maxim: *Novel multilepton signatures of dark sectors in light meson decays*. *Phys. Rev. D* **105** 015017 (2022). FTPI-MINN-20-34, [arXiv:2012.02142 \[hep-ph\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Geng, Li-Sheng and Camalich, Jorge Martin and Shi, Rui-Xiang: *New physics in $s \rightarrow d$ semileptonic transitions: rare hyperon vs. kaon decays*. *JHEP* **02** 178 (2022). [arXiv:2112.11979 \[hep-ph\]](#).
- T:** Fridell, Karl Kåre: *Phenomenology of Baryogenesis and Neutrino Physics: From Effective Field Theory to Simplified Models*. (2022).
- E:** Dev, P. S. Bhupal and Fortin, Jean-François and Harris, Steven P. and Sinha, Kuver and Zhang, Yongchao: *Light scalars in neutron star mergers*. *JCAP* **01** 006 (2022). INT-PUB-21-024, [arXiv:2111.05852 \[hep-ph\]](#).
- E:** Dery, Avital and Ghosh, Mitrajyoti: *$K \rightarrow \mu^+ \mu^-$ beyond the standard model*. *JHEP* **03** 048 (2022). [arXiv:2112.05801 \[hep-ph\]](#).
- E:** P.S. Bhupal Dev and Jean-François Fortin and Steven P. Harris and Kuver Sinha and Yongchao Zhang: *Light scalars in neutron star mergers*. *Journal of Cosmology and Astroparticle Physics* **2022** 006 (2022).
- E:** Dekens, Wouter and de Vries, Jordy and Shain, Sachin: *CP-violating axion interactions in effective field theory*. *JHEP* **07** 014 (2022). [arXiv:2203.11230 \[hep-ph\]](#).
- A:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN*. [doi:10.17635/lanaster/thesis/1650](#) (2022).
- E:** Buras, Andrzej J. and Venturini, Elena: *The exclusive vision of rare K and B decays and of the quark mixing in the standard model*. *Eur. Phys. J. C* **82** 615 (2022). AJB-22-6, TUM-HEP-1393/22, [arXiv:2203.11960 \[hep-ph\]](#).

- E:** Bryman, Douglas and Cirigliano, Vincenzo and Crivellin, Andreas and Inguglia, Gianluca: *Testing Lepton Flavor Universality with Pion, Kaon, Tau, and Beta Decays*. *Ann. Rev. Nucl. Part. Sci.* **72** 69–91 (2022). CERN-TH-2021-184, LA-UR-21-30608, ZU-TH 54/21, [arXiv:2111.05338 \[hep-ph\]](#).
- E:** Blum, Thomas and others: *Discovering new physics in rare kaon decays*. (2022). [arXiv:2203.10998 \[hep-lat\]](#).
- E:** Bensalem, Wafia and Stolarski, Daniel: *Flavor and CP violation from a QCD-like hidden sector*. *JHEP* **02** 011 (2022). [arXiv:2111.05515 \[hep-ph\]](#).
- E:** Banerjee, Swagato and others: *Snowmass 2021 White Paper: Charged lepton flavor violation in the tau sector*. (2022). [arXiv:2203.14919 \[hep-ph\]](#).
- E:** Aebischer, Jason and Buras, Andrzej J. and Kumar, Jacky: *On the Importance of Rare Kaon Decays: A Snowmass 2021 White Paper*. (2022). AJB-22-4, [arXiv:2203.09524 \[hep-ph\]](#).
- E:** Urquijo, Phillip: *Beauty 2020 Workshop Summary*. *19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020* 064 (2021).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- A:** Swallow, Joel, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays at NA62*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 430 (2021). [arXiv:2010.14475 \[hep-ex\]](#).
- T:** Smith, Paul: *Beauty from Senselessness: Searching for Signals of Beyond the Standard Model Physics in a Complex World..* [doi:10.22215/etd/2021-14616](#) (2021).
- T:** Shinohara, Satoshi: *Study of the $K_L \rightarrow \pi^0 \nu \bar{\nu}$ Decay at the J-PARC KOTO Experiment*. (2021).
- A:** Ruggiero, Giuseppe: *Rare decays of K mesons*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 036 (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **06** 093 (2021). [arXiv:2103.15389 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. *Phys. Lett. B* **816** 136259 (2021). CERN-EP-2021-018, [arXiv:2101.12304 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for a feebly interacting particle X in the decay $K^+ \rightarrow \pi^+ X$* . *JHEP* **03** 058 (2021). CERN-EP-2020-227, [arXiv:2011.11329 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for π^0 decays to invisible particles*. *JHEP* **02** 201 (2021). CERN-EP-2020-193, [arXiv:2010.07644 \[hep-ex\]](#).
- E:** Moroi, Takeo and Yin, Wen: *Light Dark Matter from Inflaton Decay*. *JHEP* **03** 301 (2021). [arXiv:2011.09475 \[hep-ph\]](#).
- A:** Minucci, Elisa, NA62 Collaboration: *Recent results from the NA62 experiment*. *19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020* 058 (2021).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for a Higgs Portal Scalar Decaying to Electron-Positron Pairs in the MicroBooNE Detector*. *Phys. Rev. Lett.* **127** 151803 (2021). FERMILAB-MICROBOONE-NOTE-1092-PUB, FERMILAB-PUB-21-262-E, [arXiv:2106.00568 \[hep-ex\]](#).
- A:** Marchevski, Radoslav, NA62 Collaboration: *New result on the search for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 398 (2021).
- T:** Lo Chiatto, Prisco: *Theoretical analysis and sensitivity study for the NA62 experiment of the decay of the K meson into two pions and a pseudoscalar particle*. (2021).
- E:** Li, Tong and Liao, Jiajun: *Loop effect in the coherent neutrino-nucleus scattering*. *JHEP* **02** 099 (2021). [arXiv:2008.00743 \[hep-ph\]](#).
- T:** Kriewald, Jonathan: *Indirect searches for New Physics via flavour observables*. (2021). [arXiv:2202.14015 \[hep-ph\]](#).
- E:** Ahn, J. K. and others, KOTO Collaboration: *Study of the $K_L \rightarrow \pi^0 \nu \bar{\nu}$ Decay at the J-PARC KOTO Experiment*. *Phys. Rev. Lett.* **126** 121801 (2021). [arXiv:2012.07571 \[hep-ex\]](#).
- T:** Kholodenko, Sergey: *Система Сцинтилляционных Годоскопов Эксперимента Na62*. (2021). CERN-THESIS-2021-329.
- E:** Kang, Zhaofeng and Shigekami, Yoshihiro: *$(g-2)_\mu$ versus $K \rightarrow \pi + E_{miss}$ induced by the $(B-L)_{23}$ boson*. *JHEP* **04** 238 (2021). [arXiv:2008.09793 \[hep-ph\]](#).
- E:** Hati, C. and Kriewald, J. and Orloff, J. and Teixeira, A. M.: *The fate of \mathbf{V}_1 vector leptoquarks: the impact of future flavour data*. *Eur. Phys. J. C* **81** 1066 (2021). TUM-HEP-1303/20, TUM-HEP-1303/20, [arXiv:2012.05883 \[hep-ph\]](#).
- T:** Gherardi, Valerio: *New Physics Hints from Flavour*. (2021). [arXiv:2111.00285 \[hep-ph\]](#).
- E:** Gherardi, Valerio and Marzocca, David and Venturini, Elena: *Low-energy phenomenology of scalar leptoquarks at one-loop accuracy*. *JHEP* **01** 138 (2021). [arXiv:2008.09548 \[hep-ph\]](#).
- E:** Freitas, Felipe F. and Herdeiro, Carlos A. R. and Morais, António P. and Onofre, António and Pasechnik, Roman and Radu, Eugen and Sanchis-Gual, Nicolas and Santos, Rui: *Ultralight bosons for strong gravity applications from simple Standard Model extensions*. *JCAP* **12** 047 (2021). [arXiv:2107.09493 \[hep-ph\]](#).

- A:** Duk, V., NA62 Collaboration: *Rare decays from NA62. II* *Nuovo Cimento C* **44** 176 (2021).
- E:** Dery, Avital and Ghosh, Mitrajyoti and Grossman, Yuval and Schacht, Stefan: *$K \rightarrow \mu^+\mu$ as a clean probe of short-distance physics.* *JHEP* **07** 103 (2021). [arXiv:2104.06427 \[hep-ph\]](#).
- E:** Deppisch, Frank F. and Fridell, Kåre and Harz, Julia: *Implications of Rare Kaon Decays on Lepton Number Violating Interactions.* *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* **130** (2021). TUM-HEP-1301/20, [arXiv:2012.14825 \[hep-ph\]](#).
- E:** de Melo, Tássio B. and Kovalenko, Sergey and Queiroz, Farinaldo S. and Siqueira, C. and Villamizar, Yoxara S.: *Rare kaon decay to missing energy: Implications of the NA62 result for a Z model.* *Phys. Rev. D* **103** 115001 (2021). [arXiv:2102.06262 \[hep-ph\]](#).
- E:** Cirigliano, Vincenzo and Fuyuto, Kaori and Lee, Christopher and Mereghetti, Emanuele and Yan, Bin: *Charged Lepton Flavor Violation at the EIC.* *JHEP* **03** 256 (2021). LA-UR-21-20531, [arXiv:2102.06176 \[hep-ph\]](#).
- E:** Chao, Wei and Li, Tong and Liao, Jiajun and Su, Min: *Loop effects with a vector mediator in coherent neutrino-nucleus scattering.* *Phys. Rev. D* **104** 095017 (2021). [arXiv:2108.02341 \[hep-ph\]](#).
- E:** Ceccucci, Augusto: *Rare Kaon Decays.* *Ann. Rev. Nucl. Part. Sci.* **71** 113–137 (2021).
- E:** Brod, Joachim and Gorbahn, Martin and Stamou, Emmanuel: *Updated Standard Model Prediction for $K \rightarrow \pi\nu\bar{\nu}$ and ϵ_K .* *19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020* **056** (2021). [arXiv:2105.02868 \[hep-ph\]](#).
- E:** Bordone, Marzia and Greljo, Admir and Marzocca, David: *Exploiting dijet resonance searches for flavor physics.* *JHEP* **08** 036 (2021). CERN-TH-2021-031, P3H-21-016, SI-HEP-2021-09, [arXiv:2103.10332 \[hep-ph\]](#).
- E:** Belfatto, Benedetta and Berezhiani, Zurab: *Are the CKM anomalies induced by vector-like quarks? Limits from flavor changing and Standard Model precision tests.* *JHEP* **10** 079 (2021). [arXiv:2103.05549 \[hep-ph\]](#).
- E:** Archer-Smith, Paul and Zhang, Yue: *Higgs Portal From The Atmosphere To Hyper-K.* *Phys. Lett. B* **817** 136309 (2021). [arXiv:2005.08980 \[hep-ph\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report.* *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- A:** NA62 Collaboration, KLEVER Collaboration, NA62, KLEVER Collaboration: *Rare decays at the CERN high-intensity kaon beam facility.* (2020). [arXiv:2009.10941 \[hep-ex\]](#).
- E:** Geng, Chao-Qiang and Tandean, Jusak: *Probing new physics with the kaon decays $K \rightarrow \pi\pi\ell$.* *Phys. Rev. D* **102** 115021 (2020). NCTS-PH/2011, [arXiv:2009.00608 \[hep-ph\]](#).
- E:** Descotes-Genon, Sébastien and Fajfer, Svjetlana and Kamenik, Jernej F. and Novoa-Brunet, Martín: *Implications of $b \rightarrow s\mu\mu$ anomalies for future measurements of $B \rightarrow K^{(*)}\nu\bar{\nu}$ and $K \rightarrow \pi\nu\bar{\nu}$.* *Phys. Lett. B* **809** 135769 (2020). [Addendum: *Phys.Lett.B* **840**, 137830 (2023)], [arXiv:2005.03734 \[hep-ph\]](#).
- E:** Deppisch, Frank F. and Fridell, Kåre and Harz, Julia: *Constraining lepton number violating interactions in rare kaon decays.* *JHEP* **12** 186 (2020). TUM-HEP-1274/20, [arXiv:2009.04494 \[hep-ph\]](#).
- E:** Borah, Debasish and Mukherjee, Lopamudra and Nandi, Soumitra: *Low scale $U(1)_X$ gauge symmetry as an origin of dark matter, neutrino mass and flavour anomalies.* *JHEP* **12** 052 (2020). [arXiv:2007.13778 \[hep-ph\]](#).
- A:** Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH.* *JINST* **15** P10025 (2020). [arXiv:2009.07581 \[physics.ins-det\]](#).
- E:** Aebischer, Jason and Buras, Andrzej J. and Kumar, Jacky: *Another SMEFT story: Z facing new results on ϵ'/ϵ , ΔM_K and $K \rightarrow \pi\nu\bar{\nu}$.* *JHEP* **12** 097 (2020). [arXiv:2006.01138 \[hep-ph\]](#).
75. Cenci, P. and others: *Status of the NA62 ring imaging Cherenkov detector.* *Nucl. Instrum. Meth. A* **952** 162005 (2020).
74. Anzivino, G. and others: *NA62 RICH performance: measurement and optimization.* *Nucl. Instrum. Meth. A* **952** 161736 (2020).
- 2 Citations:
- A:** Turisini, M., NA62 Collaboration: *Design, performance and perspective of the NA62-RICH.* *JINST* **15** C09013 (2020).
- A:** Pepe, Monica, A62 Collaboration: *Performance of the NA62 ring imaging Cherenkov detector.* *Nucl. Instrum. Meth. A* **958** 162026 (2020).
73. Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH.* *JINST* **15** P10025 (2020). [arXiv:2009.07581 \[physics.ins-det\]](#).
- 13 Citations:
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+\nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+\nu_\mu\mu^+\mu^-$ at the NA62 experiment.* (2024). CERN-THESIS-2024-346.

- A:** Romano, Angela: *Status and Prospects of $K \rightarrow \pi\nu\bar{\nu}$ at NA62 and KOTO*. 20th International Conference on B-Physics at Frontier Machines. *Proceedings of Science BEAUTY2023 050* (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. The European Physical Society Conference on High Energy Physics. *Proceedings of Science EPS-HEP2023 335* (2024).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 \& HIKE*. Workshop Italiano sulla Fisica Brad Alta IntensitGr. *Proceedings of Science WIFAI2023 027* (2024).
- A:** Kucerova, Zuzana: *Recent results from the NA62 experiment at CERN*. *Nucl. Part. Phys. Proc.* **343** 125–129 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN*. *EPJ Web Conf.* **314** 00003 (2024).
- A:** Panichi, I. and others, NA62 Collaboration: *High level performance of the NA62 RICH detector*. *Nucl. Instrum. Meth. A* **1045** 167583 (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- A:** Duk, V. and others: *Particle identification with the NA62 RICH detector*. *Nucl. Instrum. Meth. A* **1057** 168689 (2023).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Ammendola, R. and others: *Progress report on the online processing upgrade at the NA62 experiment*. *JINST* **17** C04002 (2022). [arXiv:2202.03942 \[physics.ins-det\]](#).
72. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for production of an invisible dark photon in π^0 decays*. *JHEP* **05** 182 (2019). [arXiv:1903.08767 \[hep-ex\]](#).

113 Citations:

- T:** Kuo, Jui-Lin: *Probes of sub-GeV Dark Sector Physics – Two Showcases*. (2025).
- E:** Bryman, Douglas and Shrock, Robert: *Pion Decay*. (2025). [arXiv:2502.18384 \[hep-ph\]](#).
- E:** Ablikim, Medina and others, BESIII Collaboration: *Search for a massless dark photon in $c \rightarrow u\gamma'$ decays*. *Phys. Rev. D* **111** L011103 (2025). [arXiv:2409.02578 \[hep-ex\]](#).
- T:** Zhou, Kevin: *Novel searches for physics beyond the standard model*. (2024).
- E:** Polonsky, Zachary: *Prospects for New Physics in Kaon Decays*. *EPJ Web Conf.* **312** 03001 (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E:** Mędrala-Sowa, J. and Perez del Rio, E. and Moskal, P., J-PET Collaboration: *Mirror Matter in Ortho-positronium Decay Searches Using the J-PET Detector*. *Acta Phys. Polon. Supp.* **17** 7–A8 (2024).
- T:** Massaro, Daniele: *From dark matter to dark sectors: exploring signatures at multiple scales*. [doi:10.48676/unibo/amsdottorato/11240](#) (2024).
- E:** Kou, Wei and Chen, Xurong: *Estimating the production of dark photons with η decay in high-energy collisions**. *Chin. Phys. C* **48** 103111 (2024). [arXiv:2403.04181 \[hep-ph\]](#).
- E:** Jaeckel, Joerg and Phan, Anh Vu: *Searching dark photons using displaced vertices at Belle II – with backgrounds*. *JHEP* **08** 062 (2024). [arXiv:2312.12522 \[hep-ph\]](#).
- E:** Guha, Atanu and Park, Jong-Chul: *Constraints on cosmic-ray boosted dark matter with realistic cross section*. *JCAP* **07** 074 (2024). *Journal of Cosmology and Astroparticle Physics*, Volume 2024, July 2024, [arXiv:2401.07750 \[hep-ph\]](#).
- E:** Gninenko, S. N. and Krasnikov, N. V. and Matveev, V. A.: *Search for $K_{S,L}$ oscillations and invisible decays into the dark sector at NA64*. *Natural Sci. Rev.* **1** 5 (2024). [arXiv:2501.09772 \[hep-ph\]](#).
- E:** Gninenko, Sergei N. and Kirpichnikov, Dmitry V. and Kuleshov, Sergey and Lyubovitskij, Valery E. and Zhevnikov, Alexey S.: *Test of the vector portal with dark fermions in the charge-exchange reactions in the NA64 experiment at CERN SPS*. *Phys. Rev. D* **109** 075021 (2024). [arXiv:2312.01703 \[hep-ph\]](#).
- E:** Foguel, Ana Luisa and Reimitz, Peter and Funchal, Renata Zukanovich: *Unlocking the Inelastic Dark Matter Window with Vector Mediators*. (2024). [arXiv:2410.00881 \[hep-ph\]](#).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Esseili, Haidar and Kribs, Graham D.: *Cosmological implications of gauged $U(1)_{B-L}$ on ΔN_{eff} in the CMB and BBN*. *JCAP* **05** 110 (2024). [arXiv:2308.07955 \[hep-ph\]](#).

- E:** Blanco-Mas, Pablo and Coloma, Pilar and Herrera, Gonzalo and Huber, Patrick and Kopp, Joachim and Shoemaker, Ian M. and Tabrizi, Zahra: *Clarity through the Neutrino Fog: Constraining New Forces in Dark Matter Detectors*. (2024). IFT-UAM/CSIC-24-164, [arXiv:2411.14206 \[hep-ph\]](#).
- E:** Bechtle, Philip and others: *A Proposal for the Lohengrin Experiment to Search for Dark Sector Particles at the ELSA Accelerator*. (2024). [arXiv:2410.10956 \[hep-ex\]](#).
- E:** Ardu, Marco and Rahat, Moinul Hossain and Valori, Nicola and Vives, Oscar: *Electric Dipole Moments as indirect probes of dark sectors*. *JHEP* **11** 049 (2024). [arXiv:2407.21100 \[hep-ph\]](#).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E:** Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- E:** Abdallah, Waleed and Ashry, Mustafa and Kawamura, Junichiro and Moursy, Ahmad: *Semivisible dark photon in a model with vectorlike leptons for the $(g-2)_e, \mu$ and W -boson mass anomalies*. *Phys. Rev. D* **109** 015031 (2024). CTPU-PTC-23-32, [arXiv:2308.05691 \[hep-ph\]](#).
- E:** Andreev, Yu. M. and others, NA64 Collaboration: *Search for Light Dark Matter with NA64 at CERN*. *Phys. Rev. Lett.* **131** 161801 (2023). CERN-EP-2023-130, [arXiv:2307.02404 \[hep-ex\]](#).
- E:** Mongillo, Martina and Abdullahi, Asli and Oberhauser, Benjamin Banto and Crivelli, Paolo and Hostert, Matheus and Massaro, Daniele and Bueno, Laura Molina and Pascoli, Silvia: *Constraining light thermal inelastic dark matter with NA64*. *Eur. Phys. J. C* **83** 391 (2023). IRMP-CP3-23-09, FERMILAB-PUB-23-066-T, CERN-TH-2023-018, [arXiv:2302.05414 \[hep-ph\]](#).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- E:** Guo, Jinhui and He, Yuxuan and Liu, Jia and Wang, Xiao-Ping and Xie, Ke-Pan: *Unveiling time-varying signals of ultralight bosonic dark matter at collider and beam dump experiments*. *Commun. Phys.* **6** 225 (2023). [arXiv:2206.14221 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86** 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Frumkin, Ronny and Hochberg, Yonit and Kuflik, Eric and Murayama, Hitoshi: *Thermal Dark Matter from Freeze-Out of Inverse Decays*. *Phys. Rev. Lett.* **130** 121001 (2023). [arXiv:2111.14857 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC*. *J. Phys. G* **50** 030501 (2023). UCI-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Felkl, Tobias and Li, Tong and Liao, Jiajun and Schmidt, Michael A.: *Probing general $U(1)$ ' models with non-universal lepton charges at FASER/FASER2, COHERENT and long-baseline oscillation experiments*. *JHEP* **09** 168 (2023). CPPC-2023-03, [arXiv:2306.09569 \[hep-ph\]](#).
- E:** Di Luzio, Luca and Levati, Gabriele and Paradisi, Paride and Ponce Díaz, Xavier: *Flavour constraints on light spin-1 bosons within a chiral Lagrangian approach*. *JHEP* **12** 016 (2023). [arXiv:2308.05215 \[hep-ph\]](#).
- E:** Di Luzio, Luca and Levati, Gabriele and Paradisi, Paride and Ponce Díaz, Xavier: *Low-energy flavour probes of light vector bosons*. *Nuovo Cim. C* **47** 9 (2023). [arXiv:2309.07052 \[hep-ph\]](#).
- E:** Boos, E. E. and Bunichev, V. E. and Trykov, S. S.: *Prospects for dark matter search at a super c -tau factory*. *Phys. Rev. D* **107** 075021 (2023). [arXiv:2205.07364 \[hep-ph\]](#).
- E:** Ablikim, Medina and others, BESIII Collaboration: *Search for invisible decays of a dark photon using e^+e^- annihilation data at BESIII*. *Phys. Lett. B* **839** 137785 (2023). [arXiv:2209.13893 \[hep-ex\]](#).
- E:** Bandyopadhyay, Triparno: *Dark Photons from displaced vertices*. (2023). [arXiv:2311.16997 \[hep-ph\]](#).
- E:** Argüelles, C. A. and others: *Snowmass white paper: beyond the standard model effects on neutrino flavor: Submitted to the proceedings of the US community study on the future of particle physics (Snowmass 2021)*. *Eur. Phys. J. C* **83** 15 (2023). [arXiv:2203.10811 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and Hostert, Matheus and Massaro, Daniele and Pascoli, Silvia: *Semi-Visible Dark Photon Phenomenology at the GeV Scale*. *Phys. Rev. D* **108** 015032 (2023). CERN-TH-2023-019, FERMILAB-PUB-23-054-T, IRMP-CP3-23-08, [arXiv:2302.05410 \[hep-ph\]](#).
- E:** Xu, Isabel and Lewis, Nicole and Wang, Xiaofeng and Brandenburg, James Daniel and Ruan, Lijuan: *Search for Dark Photons in $\gamma\gamma \rightarrow e^+e^-$ at RHIC*. (2022). [arXiv:2211.02132 \[hep-ex\]](#).
- E:** Schuster, Philip and Toro, Natalia and Zhou, Kevin: *Probing invisible vector meson decays with the NA64 and LDMX experiments*. *Phys. Rev. D* **105** 035036 (2022). SLAC-PUB-17635, [arXiv:2112.02104 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).

- E:** Lagouri, Theodota: *Review on Higgs hidden-dark sector physics*. *Phys. Scripta* **97** 024001 (2022).
- E:** Klose, Philipp: *Factorizing hidden particle production rates*. *JHEP* **08** 265 (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- E:** Kachanovich, Aliaksei and Kovalenko, Sergey and Kuleshov, Serguei and Lyubovitskij, Valery E. and Zhevhlakov, Alexey S.: *Lepton phenomenology of Stueckelberg portal to dark sector*. *Phys. Rev. D* **105** 075004 (2022). TTP21-049, [arXiv:2111.12522 \[hep-ph\]](#).
- E:** Greljo, Admir and Soreq, Yotam and Stangl, Peter and Thomsen, Anders Eller and Zupan, Jure: *Muonic force behind flavor anomalies*. *JHEP* **04** 151 (2022). [arXiv:2107.07518 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- E:** Foguel, Ana Luisa and Reimitz, Peter and Funchal, Renata Zukanovich: *A robust description of hadronic decays in light vector mediator models*. *JHEP* **04** 119 (2022). [arXiv:2201.01788 \[hep-ph\]](#).
- E:** Akimov, D. Yu. and others, COHERENT Collaboration: *COHERENT constraint on leptophobic dark matter using CsI data*. *Phys. Rev. D* **106** 052004 (2022). FERMILAB-CONF-22-693-ND, [arXiv:2205.12414 \[hep-ex\]](#).
- E:** Aguilar-Arevalo, A. A. and others, CCM Collaboration: *First Leptophobic Dark Matter Search from the Coherent-CAPTAIN-Mills Liquid Argon Detector*. *Phys. Rev. Lett.* **129** 021801 (2022). Report-no: LA-UR-21-28552, LA-UR-21-28552, [arXiv:2109.14146 \[hep-ex\]](#).
- A:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ with NA62 Experiment at CERN*. [doi:10.17635/lancaster/thesis/1650](#) (2022).
- E:** Boyarsky, Alexey and Mikulenko, Oleksii and Ovchinnikov, Maksym and Shchutska, Lesya: *Searches for new physics at SND@LHC*. *JHEP* **03** 006 (2022). [arXiv:2104.09688 \[hep-ph\]](#).
- E:** Betancur, Amalia and Castillo, Andrés and Palacio, Guillermo and Suarez, Juan: *Multicomponent scalar dark matter at high-intensity proton beam experiments*. *J. Phys. G* **49** 075003 (2022). [arXiv:2109.11586 \[hep-ph\]](#).
- E:** Batell, Brian and Feng, Jonathan L. and Fieg, Max and Ismail, Ahmed and Kling, Felix and Abraham, Roshan Mammen and Trojanowski, Sebastian: *Hadrophilic dark sectors at the Forward Physics Facility*. *Phys. Rev. D* **105** 075001 (2022). PITT-PACC-2122, UCL-TR-2021-16, DESY-21-191, [arXiv:2111.10343 \[hep-ph\]](#).
- E:** Baruch, Chaja and Ilten, Philip and Soreq, Yotam and Williams, Mike: *Axial vectors in DarkCast*. *JHEP* **11** 124 (2022). [arXiv:2206.08563 \[hep-ph\]](#).
- E:** Bandyopadhyay, Triparno and Chakraborty, Sabyasachi and Trifinopoulos, Sokratis: *Displaced searches for light vector bosons at Belle II*. *JHEP* **05** 141 (2022). SISSA 04/2022/FISI, TIFR/TH/22-3, SISSA 04/2022/FISI, TIFR/TH/22-3, [arXiv:2203.03280 \[hep-ph\]](#).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
- E:** Tsai, Yu-Dai and deNiverville, Patrick and Liu, Ming Xiong: *Dark Photon and Muon $g - 2$ Inspired Inelastic Dark Matter Models at the High-Energy Intensity Frontier*. *Phys. Rev. Lett.* **126** 181801 (2021). FERMILAB-PUB-19-393-A-PPD, [arXiv:1908.07525 \[hep-ph\]](#).
- T:** Tastet, Jean-Loup: *Searching for Heavy Neutral Leptons at CERN*. (2021).
- E:** Tastet, Jean-Loup and Goudzovski, Evgueni and Timiryasov, Inar and Ruchayskiy, Oleg: *Projected NA62 sensitivity to heavy neutral lepton production in $K^+ \rightarrow \pi^0 e^+ N$ decays*. *Phys. Rev. D* **104** 055005 (2021). [arXiv:2008.11654 \[hep-ph\]](#).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](#) (2021).
- T:** Ovchinnikov, M.: *Searches for new physics in the laboratory and in space*. (2021).
- A:** Lollini, Riccardo, NA62 Collaboration: *The $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay and New Physics Searches at NA62*. *Acta Phys. Polon. Supp.* **14** 41 (2021).
- T:** Kuo, Jui-Lin: *Probes of sub-GeV dark sector physics*. [doi:10.25365/thesis.70180](#) (2021).
- E:** Graham, Matt and Hearty, Christopher and Williams, Mike: *Searches for Dark Photons at Accelerators*. *Ann. Rev. Nucl. Part. Sci.* **71** 37–58 (2021). [arXiv:2104.10280 \[hep-ph\]](#).
- E:** Gninenko, Sergei Nikolaevich and Krasnikov, Nikolai V. and Matveev, Viktor A.: *Search for light dark matter in the NA64 experiment*. *Usp. Fiz. Nauk* **191** 1361–1386 (2021).
- E:** Coloma, Pilar and Gonzalez-Garcia, M. C. and Maltoni, Michele: *Neutrino oscillation constraints on $U(1)'$ models: from non-standard interactions to long-range forces*. *JHEP* **01** 114 (2021). [Erratum: *JHEP* **11**, 115 (2022)]IFT-UAM/CSIC-133, IFT-UAM/CSIC-20-133, YITP-SB-2020-30, [arXiv:2009.14220 \[hep-ph\]](#).
- E:** Bodas, Arushi and Coy, Rupert and King, Simon J. D.: *Solving the electron and muon $g - 2$ anomalies in Z' models*. *Eur. Phys. J. C* **81** 1065 (2021). ULB-TH/21-01, [arXiv:2102.07781 \[hep-ph\]](#).
- T:** Bernreuther, Elias: *Accelerator phenomenology of strongly interacting dark sectors*. [doi:10.18154/RWTH-2021-09273](#) (2021).
- E:** Bernreuther, Elias and Heeba, Saniya and Kahlhoefer, Felix: *Resonant sub-GeV Dirac dark matter*. *JCAP* **03** 040 (2021). P3H-20-062, TTK-20-38, [arXiv:2010.14522 \[hep-ph\]](#).
- E:** Bauer, Martin and Foldenauer, Patrick and Mosny, Martin: *Flavor structure of anomaly-free hidden photon models*. *Phys. Rev. D* **103** 075024 (2021). IPPP/20/59, [arXiv:2011.12973 \[hep-ph\]](#).

- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions.* *JHEP* **09** 063 (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Andreev, Yu. M. and others: *Improved exclusion limit for light dark matter from e^+e^- annihilation in NA64.* *Phys. Rev. D* **104** L091701 (2021). CERN-EP-2021-164, [arXiv:2108.04195 \[hep-ex\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report.* *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- E:** Acevedo, Mason and Blackburn, Albany and Blinov, Nikita and Shuve, Brian and Stone, Mavis: *Multi-track displaced vertices at B-factories.* *JHEP* **09** 154 (2021). FERMILAB-PUB-21-252-T, [arXiv:2105.12744 \[hep-ph\]](#).
- E:** Abdullahi, Asli and Hostert, Matheus and Pascoli, Silvia: *A dark seesaw solution to low energy anomalies: Mini-BooNE, the muon ($g\mathbf{I}s-\mathbf{b}\mathbf{I}s^2$), and BaBar.* *Phys. Lett. B* **820** 136531 (2021). FTPI-MINN-20-25, IPPP/20/32, FTPI-MINN-20-25, IPPP/20/32, [arXiv:2007.11813 \[hep-ph\]](#).
- E:** Su, Jih-Ying and Tandean, Jusak: *Seeking massless dark photons in the decays of charmed hadrons.* *Phys. Rev. D* **102** 115029 (2020). NCTS-PH/2006, [arXiv:2005.05297 \[hep-ph\]](#).
- E:** Su, Jih-Ying and Tandean, Jusak: *Kaon decays shedding light on massless dark photons.* *Eur. Phys. J. C* **80** 824 (2020). NCTS-PH/2008, [arXiv:2006.05985 \[hep-ph\]](#).
- E:** Su, Jih-Ying and Tandean, Jusak: *Searching for dark photons in hyperon decays.* *Phys. Rev. D* **101** 035044 (2020). NCTS-PH/1908, [arXiv:1911.13301 \[hep-ph\]](#).
- A:** Spadaro, T., NA62 Collaboration: *Search for invisible dark photon at NA62.* *J. Phys. Conf. Ser.* **1526** 012030 (2020).
- A:** Romano, Angela, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays.* *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* 222 (2020).
- A:** Piccini, M., NA62 Collaboration: *Status of the NA62 Experiment.* *EPJ Web Conf.* **234** 01012 (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2020** 083C01 (2020).
- A:** Minucci, Elisa, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62.* *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* 571 (2020).
- A:** Massarotti, Paolo, NA62 Collaboration: *Physics beyond the standard model with kaons at NA62.* *AIP Conf. Proc.* **2249** 030003 (2020).
- A:** Lurkin, Nicolas, NA62 Collaboration: *Latest results from the NA62 experiment at CERN.* *ALPS 2019 An Alpine LHC Physics Summit. Proceedings of Science ALPS2019* 037 (2020). [arXiv:1907.12955 \[hep-ex\]](#).
- E:** Aaij, Roel and others, LHCb Collaboration: *Search for $A' \rightarrow \mu^+\mu^-$ Decays.* *Phys. Rev. Lett.* **124** 041801 (2020). LHCb-PAPER-2019-031, CERN-EP-2019-212, [arXiv:1910.06926 \[hep-ex\]](#).
- A:** Kucerova, Zuzana, NA62 Collaboration: *Recent results in kaon physics.* *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* 028 (2020).
- E:** Krnjaic, Gordan and McDermott, Samuel D.: *Implications of BBN Bounds for Cosmic Ray Upscattered Dark Matter.* *Phys. Rev. D* **101** 123022 (2020). FERMILAB-PUB-19-358-A, [arXiv:1908.00007 \[hep-ph\]](#).
- E:** Kling, Felix: *Probing light gauge bosons in tau neutrino experiments.* *Phys. Rev. D* **102** 015007 (2020). [arXiv:2005.03594 \[hep-ph\]](#).
- T:** Iacobuzio, Lorenza: *Heavy neutral lepton decay searches at the NA62 experiment at CERN.* (2020).
- E:** Goncalves, V. P. and Moreira, B. D.: *Dark photons from pions produced in ultraperipheral PbPb collisions.* *Phys. Lett. B* **808** 135635 (2020). [arXiv:2006.08348 \[hep-ph\]](#).
- E:** Filippi, Alessandra and De Napoli, Marzio: *Searching in the dark: the hunt for the dark photon.* *Rev. Phys.* **5** 100042 (2020). [arXiv:2006.04640 \[hep-ph\]](#).
- E:** Farzan, Y.: *A model for lepton flavor violating non-standard neutrino interactions.* *Phys. Lett. B* **803** 135349 (2020). [arXiv:1912.09408 \[hep-ph\]](#).
- E:** Fabbrichesi, Marco and Gabrielli, Emidio and Lanfranchi, Gaia: *The Dark Photon.* [doi:10.1007/978-3-030-62519-1](#) (2020). [arXiv:2005.01515 \[hep-ph\]](#).
- A:** Duk, V., NA62 Collaboration: *Searches for lepton flavor and lepton number violation in K^+ decays with NA62.* *J. Phys. Conf. Ser.* **1526** 012014 (2020).
- E:** De Roeck, Albert and Kim, Doojin and Moghaddam, Zahra Gh. and Park, Jong-Chul and Shin, Seodong and Whitehead, Leigh H.: *Probing Energetic Light Dark Matter with Multi-Particle Tracks Signatures at DUNE.* *JHEP* **11** 043 (2020). MI-TH-2011, [arXiv:2005.08979 \[hep-ph\]](#).
- A:** Corvino, M., NA62 Collaboration: *Search for lepton number violation and other exotic processes at NA62.* *Nuovo Cim. C* **43** 42 (2020).
- E:** Chu, Xiaoyong and Kuo, Jui-Lin and Pradler, Josef: *Dark sector-photon interactions in proton-beam experiments.* *Phys. Rev. D* **101** 075035 (2020). [arXiv:2001.06042 \[hep-ph\]](#).
- E:** Bernhard, J., NA64, Physics Beyond Collider Conventional Beams working group Collaboration: *Status and Plans for the NA64 Experiment.* *J. Phys. Conf. Ser.* **1468** 012023 (2020).
- E:** Bernhard, Johannes and others: *Studies for new experiments at the CERN M2 beamline within "physics beyond colliders": AMBER/COMPASS++, NA64 μ , MuonE.* *AIP Conf. Proc.* **2249** 030035 (2020). [arXiv:1911.01498 \[hep-ex\]](#).

- E:** Ballett, Peter and Hostert, Matheus and Pascoli, Silvia: *Dark Neutrinos and a Three Portal Connection to the Standard Model*. *Phys. Rev. D* **101** 115025 (2020). IPPP/19/19/FTPI-MINN-20-17, IPPP/19/19, [arXiv:1903.07589 \[hep-ph\]](#).
- E:** Zhang, Yu and Zhang, Wei-Tao and Song, Mao and Pan, Xue-An and Niu, Zhong-Ming and Li, Gang: *Probing invisible decay of dark photon at BESIII and future STCF via monophoton searches*. *Phys. Rev. D* **100** 115016 (2019). [arXiv:1907.07046 \[hep-ph\]](#).
- A:** Volpe, Roberta: *Search for exotic decays at NA62*. (2019). [arXiv:1910.10429 \[hep-ex\]](#).
- E:** Vagnoni, Vincenzo M.: *QCD and high energy interactions: Experimental summary*. (2019). [arXiv:1906.00803 \[hep-ex\]](#).
- A:** Peruzzo, Letizia and others, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62*. *Frascati Phys. Ser.* **69** 194–199 (2019).
- A:** Mirra, Marco, NA62 Collaboration: *SEARCH FOR PRODUCTION OF AN INVISIBLE DARK PHOTON FROM π^0 DECAYS AT NA62*. (2019).
- A:** Jerhot, Jan, NA62 Collaboration: *Search for Exotic Decays with NA62*. *XXIX International Symposium on Lepton Photon Interactions at High Energies*. *Proceedings of Science LeptonPhoton2019* **149** (2019).
- E:** Ellis, Richard Keith and others: *Physics Briefing Book: Input for the European Strategy for Particle Physics Update 2020*. (2019). CERN-ESU-004, [arXiv:1910.11775 \[hep-ex\]](#).
- A:** Estrada Tristan, Nora Patricia, Na62 Collaboration: *Recent kaon decay results from NA62*. *7th Annual Conference on Large Hadron Collider Physics*. *Proceedings of Science LHCP2019* **040** (2019).
- A:** Engelfried, Jürgen: *Dark sector searches in non-LHC experiments*. *7th Annual Conference on Large Hadron Collider Physics*. *Proceedings of Science LHCP2019* **182** (2019).
- E:** Banerjee, D. and others: *Dark matter search in missing energy events with NA64*. *Phys. Rev. Lett.* **123** 121801 (2019). CERN-EP-2019-116, [arXiv:1906.00176 \[hep-ex\]](#).
71. Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating K^+ decays*. *Phys. Lett. B* **797** 134794 (2019). [arXiv:1905.07770 \[hep-ex\]](#).

78 Citations:

- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- E:** González, Marcela and Neill, Nicolás A.: *QCD running in lepton number violating meson and tau decays*. *Phys. Rev. D* **111** 015041 (2025). [arXiv:2309.14445 \[hep-ph\]](#).
- E:** Frigerio, Michele and Vignaroli, Natascia: *Muon collider probes of Majorana neutrino dipole moments and masses*. *JHEP* **04** 008 (2025). [arXiv:2409.02721 \[hep-ph\]](#).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62*. *42nd International Conference on High Energy Physics*. *Proceedings of Science ICHEP2024* **445** (2025).
- E:** Hayrapetyan, Aram and others, CMS Collaboration: *Review of searches for vector-like quarks, vector-like leptons, and heavy neutral leptons in proton–proton collisions at $s=13\text{TeV}$ at the CMS experiment*. *Phys. Rept.* **1115** 570–677 (2025). CMS-EXO-23-006, CERN-EP-2024-095, [arXiv:2405.17605 \[hep-ex\]](#).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN*. *8th Symposium on Prospects in the Physics of Discrete Symmetries*. *Proceedings of Science DISCRETE2022* **071** (2024).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics*. *Proceedings of Science EPS-HEP2023* **335** (2024).
- T:** Neundorff, Jonas: *Search for Heavy Majorana Neutrinos at the LHC*. [doi:10.3204/PUBDB-2024-01329](#) (2024). DESY-THESIS-2024-005.
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0 \pi \mu e$ decays*. *Phys. Lett. B* **859** 139122 (2024). CERN-EP-2024-224, [arXiv:2409.12981 \[hep-ex\]](#).
- E:** Knapen, Simon and Opferkuch, Toby and Redigolo, Diego and Tammaro, Michele: *Displaced Searches for Axion-Like Particles and Heavy Neutral Leptons at Mu3e*. (2024). [arXiv:2410.13941 \[hep-ph\]](#).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN*. *International Conference on Particle Physics and Cosmology*. *Proceedings of Science ICPPCRubakov2023* **042** (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.

- E: Dev, P. S. B. and others: *Searches for baryon number violation in neutrino experiments: a white paper*. *J. Phys. G* **51** 033001 (2024). [arXiv:2203.08771 \[hep-ex\]](#).
- E: Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* **84** 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- E: Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- A: Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. *JINST* **18** C12018 (2023).
- A: Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay*. *Phys. Lett. B* **838** 137679 (2023). CERN-EP-2022-243, [arXiv:2211.04818 \[hep-ex\]](#).
- A: Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012022 (2023).
- A: Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- E: Hernández-Tomé, Gerardo and Portillo-Sánchez, Diego and Toledo, Genaro: *Resonant Majorana neutrino effects in $\Delta L=2$ four-body hyperon decays*. *Phys. Rev. D* **107** 055042 (2023). [arXiv:2212.03994 \[hep-ph\]](#).
- T: Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E: Guadagnoli, Diego and Langenbruch, Christoph and Manoni, Elisa: *WG3 Summary – Rare B, D and K decays. 11th International Workshop on the CKM Unitarity Triangle. Proceedings of Science CKM2021 014* (2023). [arXiv:2204.03942 \[hep-ph\]](#).
- E: Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* **86** 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E: Tumasyan, Armen and others, CMS Collaboration: *Probing Heavy Majorana Neutrinos and the Weinberg Operator through Vector Boson Fusion Processes in Proton-Proton Collisions at $s=13$ TeV*. *Phys. Rev. Lett.* **131** 011803 (2023). CMS-EXO-21-003, CERN-EP-2022-105, [arXiv:2206.08956 \[hep-ex\]](#).
- E: Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LAUR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E: Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3*. (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E: Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- T: Zhou, Guanghui: *Sterile neutrinos and effective field theory*. (2022).
- E: Zhou, Guanghui: *Light sterile neutrinos and lepton-number-violating kaon decays in effective field theory*. *JHEP* **06** 127 (2022). [arXiv:2112.00767 \[hep-ph\]](#).
- E: Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull.* **77** 148–151 (2022).
- E: Schubert, Jonathan L. and Ruchayskiy, Oleg: *Neutrinoless double-beta decay at colliders: interference between Majorana states*. (2022). [arXiv:2210.11294 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A: Minucci, Elisa and others, NA62 Collaboration: *Searches for lepton flavour and number violation in K^+ and π^0 decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021 525* (2022).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating $K^+ \rightarrow \pi^- (\pi^0) e^+ e^+$ decays*. *Phys. Lett. B* **830** 137172 (2022). CERN-EP-2022-018, [arXiv:2202.00331 \[hep-ex\]](#).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *A measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay*. *JHEP* **11** 011 (2022). [Addendum: *JHEP* **06**, 040 (2023)] CERN-EP-2022-189, [arXiv:2209.05076 \[hep-ex\]](#).
- A: Kholodenko, Sergei and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021 066* (2022).
- A: Minucci, Elisa, NA62 Collaboration: *Searches for Lepton Flavour and Lepton Number violation in K^+ decays*. *Nucl. Part. Phys. Proc.* **318-323** 165–169 (2022).
- E: Lee, MyeongJae and MacKenzie, Michael: *Muon to Positron Conversion*. *Universe* **8** 227 (2022). FERMILAB-PUB-21-0882-V, [arXiv:2110.07093 \[hep-ex\]](#).
- E: Hostert, Matheus and Pospelov, Maxim: *Novel multilepton signatures of dark sectors in light meson decays*. *Phys. Rev. D* **105** 015017 (2022). FTPI-MINN-20-34, [arXiv:2012.02142 \[hep-ph\]](#).

- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- A:** Duk, Viacheslav: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. [41st International Conference on High Energy physics. Proceedings of Science ICHEP2022 705](#) (2022).
- T:** Carmignani, Joe: *eXplainable Artificial Intelligence (XAI) for the Measurement of $Br(K^+ \rightarrow \pi^+\nu\bar{\nu})$ with NA62 Experiment at CERN*. [doi:10.17635/lancaster/thesis/1650](#) (2022).
- A:** Bician, Lubos: *Search for Lepton Number and Flavour Violation in K^+ and π^0 Decays*. [Nucl. Part. Phys. Proc. 318-323 170–172](#) (2022).
- E:** Urquijo, Phillip: *Beauty 2020 Workshop Summary*. [19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020 064](#) (2021).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- A:** Swallow, Joel, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays at NA62*. [40th International Conference on High Energy physics. Proceedings of Science ICHEP2020 430](#) (2021). [arXiv:2010.14475 \[hep-ex\]](#).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](#) (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Lepton Number and Flavor Violation in K^+ and π^0 Decays*. [Phys. Rev. Lett. 127 131802](#) (2021). CERN-EP-2021-090, [arXiv:2105.06759 \[hep-ex\]](#).
- A:** Lollini, Riccardo, NA62 Collaboration: *The $K^+ \rightarrow \pi^+\nu\bar{\nu}$ Decay and New Physics Searches at NA62*. [Acta Phys. Polon. Supp. 14 41](#) (2021).
- E:** Liao, Yi and Ma, Xiao-Dong and Wang, Hao-Lin: *Effective field theory approach to lepton number violating τ decays*. [Chin. Phys. C 45 073102](#) (2021). [arXiv:2102.03491 \[hep-ph\]](#).
- A:** Koval, Michal, NA62 Collaboration: *Kaon Physics in Europe*. [JPS Conf. Proc. 33 011106-1–011106-7](#) (2021).
- E:** Girmohanta, S. and Mohapatra, R. N. and Shrock, R.: *Neutrino Masses and Mixing in Models with Large Extra Dimensions and Localized Fermions*. [Phys. Rev. D 103 015021](#) (2021). Maryland - Stony Brook preprint YITP-SB-2020-27, [arXiv:2011.01237 \[hep-ph\]](#).
- E:** Fuks, Benjamin and Neundorf, Jonas and Peters, Krisztian and Ruiz, Richard and Saimpert, Matthias: *Probing the Weinberg operator at colliders*. [Phys. Rev. D 103 115014](#) (2021). CP3-20-63, DESY-20-230, DESY 20-230, IFJAN-IV-2021-3, MCNet-20-23, [arXiv:2012.09882 \[hep-ph\]](#).
- E:** Ceccucci, Augusto: *Rare Kaon Decays*. [Ann. Rev. Nucl. Part. Sci. 71 113–137](#) (2021).
- E:** Abdullahi, Asli and Hostert, Matheus and Pascoli, Silvia: *A dark seesaw solution to low energy anomalies: Mini-BooNE, the muon ($g\bar{L}s-B\bar{L}s2$), and BaBar*. [Phys. Lett. B 820 136531](#) (2021). FTPI-MINN-20-25, IPPP/20/32, FTPI-MINN-20-25, IPPP/20/32, [arXiv:2007.11813 \[hep-ph\]](#).
- A:** Piccini, M., NA62 Collaboration: *Status of the NA62 Experiment*. [EPJ Web Conf. 234 01012](#) (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2020 083C01](#) (2020).
- E:** Marcano, X. and Abada, A. and Hati, C. and Teixeira, A. M.: *Interference effects in semileptonic decays from heavy Majorana neutrinos*. [European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019 410](#) (2020). [arXiv:1909.12060 \[hep-ph\]](#).
- A:** Lurkin, Nicolas, NA62 Collaboration: *Latest results from the NA62 experiment at CERN*. [ALPS 2019 An Alpine LHC Physics Summit. Proceedings of Science ALPS2019 037](#) (2020). [arXiv:1907.12955 \[hep-ex\]](#).
- E:** Liao, Yi and Ma, Xiao-Dong and Wang, Hao-Lin: *Effective field theory approach to lepton number violating decays $K^\pm \rightarrow \pi^\mp l_\alpha^\pm l_\beta^\pm$: long-distance contribution*. [JHEP 03 120](#) (2020). [arXiv:2001.07378 \[hep-ph\]](#).
- E:** Liao, Yi and Ma, Xiao-Dong and Wang, Hao-Lin: *Effective field theory approach to lepton number violating decays $K^\pm \rightarrow \pi^\mp l^\pm l^\pm$: short-distance contribution*. [JHEP 01 127](#) (2020). [arXiv:1909.06272 \[hep-ph\]](#).
- A:** Kucerova, Zuzana, NA62 Collaboration: *Recent results in kaon physics*. [18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019 028](#) (2020).
- A:** Duk, V., NA62 Collaboration: *Searches for lepton flavor and lepton number violation in K^+ decays with NA62*. [J. Phys. Conf. Ser. 1526 012014](#) (2020).
- A:** Corvino, M., NA62 Collaboration: *Search for lepton number violation and other exotic processes at NA62*. [Nuovo Cim. C 43 42](#) (2020).
- E:** Ceccucci, Augusto and Lazzeroni, Cristina: *Rare kaon decays*. [Comptes Rendus Physique 21 107–119](#) (2020).
- E:** Boyle, P. and Jüttner, A. and Hógáin, F. Ó and Portelli, A.: *Latest Results on Lattice Calculation Concerning $K \rightarrow \pi\ell^+\ell^-$ Decays*. [J. Phys. Conf. Ser. 1526 012015](#) (2020).
- E:** Ballett, Peter and Hostert, Matheus and Pascoli, Silvia: *Dark Neutrinos and a Three Portal Connection to the Standard Model*. [Phys. Rev. D 101 115025](#) (2020). IPPP/19/19/FTPI-MINN-20-17, IPPP/19/19, [arXiv:1903.07589 \[hep-ph\]](#).
- E:** Aoki, Mayumi and Enomoto, Kazuki and Kanemura, Shinya: *Probing charged lepton number violation via $\ell^\pm\ell^\pm W^\mp W^\mp$* . [Phys. Rev. D 101 115019](#) (2020). OU-HET-1042, KANAZAWA-20-02, [arXiv:2002.12265 \[hep-ph\]](#).

- A: Zamkovsky, M., NA62 Collaboration: *Rare strange particle decays*. (2019). [arXiv:1906.08567 \[hep-ex\]](#).
- A: Volpe, Roberta, NA62 Collaboration: *Physics beyond SM with kaons from NA62*. (2019). [arXiv:1910.09422 \[hep-ex\]](#).
- A: Kleimenova, Alina, NA62 Collaboration: *Latest results from NA62*. [XXVII International Workshop on Deep-Inelastic Scattering and Related Subjects](#). *Proceedings of Science DIS2019 122* (2019).
- E: Ellis, Richard Keith and others: *Physics Briefing Book: Input for the European Strategy for Particle Physics Update 2020*. (2019). CERN-ESU-004, [arXiv:1910.11775 \[hep-ex\]](#).
- A: Estrada Tristan, Nora Patricia, NA62 Collaboration: *Recent kaon decay results from NA62*. [7th Annual Conference on Large Hadron Collider Physics](#). *Proceedings of Science LHCP2019 040* (2019).
70. Cortina Gil, Eduardo and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ using the decay-in-flight technique*. *Phys. Lett. B* **791** 156–166 (2019). [arXiv:1811.08508 \[hep-ex\]](#).

134 Citations:

- E: Popov, Nicolai and Briscoe, William J. and Strakovsky, Igor: *CP Violation Problem*. *Braz. J. Phys.* **55** 97 (2025). [arXiv:2404.19123 \[hep-ph\]](#).
- T: Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio*. *JHEP* **02** 191 (2025). CERN-EP-2024-343, [arXiv:2412.12015 \[hep-ex\]](#).
- E: Guadagnoli, Diego and Iohner, Axel and Lazzeroni, Cristina and Martinez Santos, Diego and Swallow, Joel C. and Toni, Claudio: *New bound on the vectorial axion-down-strange coupling from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ data*. (2025). LAPTH-008/25, [arXiv:2503.05865 \[hep-ph\]](#).
- E: Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- A: Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN*. *Acta Phys. Polon. Supp.* **17** 6–A18 (2024).
- A: Romano, Angela: *Status and Prospects of $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO*. [20th International Conference on B-Physics at Frontier Machines](#). *Proceedings of Science BEAUTY2023 050* (2024).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E: Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ distributions*. *Eur. Phys. J. C* **84** 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- T: Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- A: Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN*. *EPJ Web Conf.* **314** 00003 (2024).
- E: Ablikim, Medina and others, BESIII Collaboration: *Search for a massless particle beyond the Standard Model in the $\Sigma^+ b \Gamma^+ s \rightarrow b \Gamma^+ s p b \Gamma^+ s + b \Gamma^+ s$ invisible decay*. *Phys. Lett. B* **852** 138614 (2024). [arXiv:2312.17063 \[hep-ex\]](#).
- A: Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN*. [The 10th International Workshop on Chiral Dynamics](#). *Proceedings of Science CD2021 050* (2024).
- E: Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- T: Shain Poruvelil, Sachin: *Aspects of strong and new CP violation*. (2023).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Performance of the NA62 trigger system*. *JHEP* **03** 122 (2023). CERN-EP-2022-165, [arXiv:2208.00897 \[hep-ex\]](#).
- E: Marchevski, Radoslav: *First thought on a high-intensity KS experiment*. *J. Phys. Conf. Ser.* **2446** 012035 (2023). [arXiv:2301.06801 \[hep-ex\]](#).
- T: Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at NA62*. (2023). CERN-THESIS-2023-422.
- E: He, Xiao-Gang and Ma, Xiao-Dong and Valencia, German: *FCNC B and K meson decays with light bosonic Dark Matter*. *JHEP* **03** 037 (2023). [arXiv:2209.05223 \[hep-ph\]](#).
- A: Brizioli, Francesco, NA62 Collaboration: *Measurement of the very rare $K^+ \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012002 (2023).
- A: Ammendola, R. and others: *The NA62 level 0 calorimetric trigger fast readout implementation, commissioning and data taking performances*. *JINST* **18** C02049 (2023).
- A: Zamkovsky, Michal: *Measurement of the Very Rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay*. *Moscow Univ. Phys. Bull.* **77** 276–279 (2022).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).

- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams.* (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- A:** Fiorenza, Renato and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN. The 22nd International Workshop on Neutrinos from Accelerators.* *Proceedings of Science NuFact2021 176* (2022).
- A:** Zamkovský, Michal and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay. 7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021.* *Proceedings of Science DISCRETE2020-2021 070* (2022).
- T:** Lehmann, Benjamin Victor: *Dark matter, black holes, and new physics.* (2022).
- E:** Klose, Philipp: *Factorizing hidden particle production rates.* *JHEP 08 265* (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- T:** Fridell, Karl Kåre: *Phenomenology of Baryogenesis and Neutrino Physics: From Effective Field Theory to Simplified Models.* (2022).
- T:** El Jarrari, Hassnae: *Dark Photon Searches from Higgs Boson and Heavy Boson Decays Using pp Collisions Recorded at 13 TeV with the ATLAS Detector at the LHC and Performance Evaluation of the Low Gain Avalanche Detectors for the HL-LHC ATLAS High-Granularity Timing Detector.* (2022). CERN-THESIS-2022-339.
- E:** Dekens, Wouter and de Vries, Jordy and Shain, Sachin: *CP-violating axion interactions in effective field theory.* *JHEP 07 014* (2022). [arXiv:2203.11230 \[hep-ph\]](#).
- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62.* (2022). CERN-THESIS-2022-272.
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN.* (2021).
- A:** Ruggiero, Giuseppe: *Rare decays of K mesons. 40th International Conference on High Energy physics. Proceedings of Science ICHEP2020 036* (2021).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment.* [doi:10.25358/openscience-5911](#) (2021).
- E:** Perelstein, Maxim and San, Yik Chuen: *Dark Matter as a Solution to Muonic Puzzles.* *Phys. Rev. D 103 035032* (2021). [arXiv:2009.09867 \[hep-ph\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay.* *JHEP 06 093* (2021). [arXiv:2103.15389 \[hep-ex\]](#).
- A:** Minucci, Elisa, NA62 Collaboration: *Recent results from the NA62 experiment. 19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020 058* (2021).
- A:** Marchevski, Radoslav, NA62 Collaboration: *New result on the search for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN. 40th International Conference on High Energy physics. Proceedings of Science ICHEP2020 398* (2021).
- A:** Marchevski, Radoslav, NA62 Collaboration: *New result on the search for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN. 40th International Conference on High Energy physics. Proceedings of Science ICHEP2020 398* (2021).
- A:** Lollini, Riccardo, NA62 Collaboration: *The $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay and New Physics Searches at NA62.* *Acta Phys. Polon. Supp. 14 41* (2021).
- A:** Koval, Michal, NA62 Collaboration: *Kaon Physics in Europe.* *JPS Conf. Proc. 33 011106-1–011106-7* (2021).
- T:** Kholodenko, Sergey: *Система Сцинтилляционных Годоскопов Эксперимента На62.* (2021). CERN-THESIS-2021-329.
- T:** Hutcheson, Melissa A.: *Search for the Rare Decay of the Neutral Kaon, $K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$.* [doi:10.7302/1359](#) (2021).
- T:** Ghosh, Sumit: *Exploring the invisible Universe by Model building: Neutrinos and other Dark Matters.* (2021).
- T:** Ertas, Fatih: *Phenomenology of light pseudoscalar particles.* [doi:10.18154/RWTH-2021-09397](#) (2021).
- A:** Duk, V., NA62 Collaboration: *Rare decays from NA62. II Nuovo Cimento C 44 176* (2021).
- E:** D’Alessandro, Gian Luigi and Banerjee, Dipanwita and Bernhard, Johannes and Brugger, Markus and Doble, Niels and Gatignon, Laurent and Gerbershagen, Alexander and Gibson, Stephen M. and Rae, Bastien and Velotti, Francesco M.: *Target Bypass Beam Optics for Future High Intensity Fixed Target Experiments in the CERN North Area.* *JACoW IPAC 2021 3046–3048* (2021).
- E:** Ceccucci, Augusto: *Rare Kaon Decays.* *Ann. Rev. Nucl. Part. Sci. 71 113–137* (2021).
- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions.* *JHEP 09 063* (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report.* *Eur. Phys. J. C 81 1015* (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- T:** Zamkovský, Michal: *Study of the extremely rare decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ with the NA62 experiment at CERN.* (2020).
- E:** Yamanaka, T.: *Introduction to KAON2019 – Experiments –.* *J. Phys. Conf. Ser. 1526 012001* (2020).
- A:** Volpe, R. and others: *The role of the NA62 RICH in the $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ measurement.* *Nucl. Instrum. Meth. A 952 161802* (2020).

- E:** van Dijk, M. W. U., KLEVER project Collaboration: *KLEVER: An experiment to measure $\text{BR}(K_L \rightarrow \pi^0 \nu \bar{\nu})$ at the CERN SPS*. *J. Phys. Conf. Ser.* **1586** 012037 (2020). [arXiv:1903.08595 \[physics.ins-det\]](#).
- A:** Turisini, M., NA62 Collaboration: *Design, performance and perspective of the NA62-RICH*. *JINST* **15** C09013 (2020).
- E:** Su, Jih-Ying and Tandean, Jusak: *Exploring leptoquark effects in hyperon and kaon decays with missing energy*. *Phys. Rev. D* **102** 075032 (2020). NCTS-PH/1909, [arXiv:1912.13507 \[hep-ph\]](#).
- A:** Sozzi, M. S.: *Tests of discrete symmetries*. *J. Phys. G* **47** 013001 (2020).
- A:** Ruggiero, G.: *New Result on $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ from the NA62 Experiment*. *J. Phys. Conf. Ser.* **1526** 012003 (2020).
- E:** Romano, Angela, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays*. *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* **222** (2020).
- A:** Piccini, M., NA62 Collaboration: *Status of the NA62 Experiment*. *EPJ Web Conf.* **234** 01012 (2020).
- A:** Piandani, R., NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$ with NA62: 2016 results and prospects*. *Nuovo Cim. C* **42** 253 (2020).
- A:** Pepe, Monica, A62 Collaboration: *Performance of the NA62 ring imaging Cherenkov detector*. *Nucl. Instrum. Meth. A* **958** 162026 (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- A:** Parenti, A., NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at the NA62 experiment*. *Nuovo Cim. C* **43** 51 (2020).
- A:** NA62 Collaboration, KLEVER Collaboration, NA62, KLEVER Collaboration: *Rare decays at the CERN high-intensity kaon beam facility*. (2020). [arXiv:2009.10941 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays to positrons*. *Phys. Lett. B* **807** 135599 (2020). CERN-EP-2020-089, [arXiv:2005.09575 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *An investigation of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **11** 042 (2020). CERN-EP-2020-132, [arXiv:2007.08218 \[hep-ex\]](#).
- A:** Minucci, Elisa, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62*. *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* **571** (2020).
- A:** Massarotti, Paolo, NA62 Collaboration: *Physics beyond the standard model with kaons at NA62*. *AIP Conf. Proc.* **2249** 030003 (2020).
- A:** Lurkin, Nicolas, NA62 Collaboration: *Latest results from the NA62 experiment at CERN*. *ALPS 2019 An Alpine LHC Physics Summit. Proceedings of Science ALPS2019* **037** (2020). [arXiv:1907.12955 \[hep-ex\]](#).
- E:** Lichard, Peter: *Possible manifestation of the 2p ponium in particle physics processes*. *Phys. Rev. D* **102** 073004 (2020). [arXiv:2009.05616 \[hep-ph\]](#).
- E:** Lichard, Peter: *Ponium as a source of false events in the $K \rightarrow \pi \nu \bar{\nu}$ decays*. *Phys. Rev. D* **102** 113005 (2020). [arXiv:2006.02969 \[hep-ph\]](#).
- A:** Lenti, M.: *Final performances of the NA62 RICH detector*. *JINST* **15** C03027 (2020).
- A:** Kucerova, Z., NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at CERN*. *J. Phys. Conf. Ser.* **1586** 012002 (2020).
- A:** Kucerova, Zuzana, NA62 Collaboration: *Recent results in kaon physics*. *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* **028** (2020).
- E:** Krnjaic, Gordan and Marques-Tavares, Gustavo and Redigolo, Diego and Tobioka, Kohsaku: *Probing Muonphilic Force Carriers and Dark Matter at Kaon Factories*. *Phys. Rev. Lett.* **124** 041802 (2020). FERMILAB-PUB-18-665-A, KEK-TH-2105, [arXiv:1902.07715 \[hep-ph\]](#).
- E:** Kitahara, Teppei and Okui, Takemichi and Perez, Gilad and Soreq, Yotam and Tobioka, Kohsaku: *New physics implications of recent search for $K_L \rightarrow \pi^0 \nu \bar{\nu}$ at KOTO*. *Phys. Rev. Lett.* **124** 071801 (2020). KEK-TH-2157, CERN-TH-2019-151, [arXiv:1909.11111 \[hep-ph\]](#).
- E:** Jaeckel, Joerg and Lamont, Mike and Vallée, Claude: *The quest for new physics with the Physics Beyond Colliders programme*. *Nature Phys.* **16** 393–401 (2020).
- T:** Iacobuzio, Lorenza: *Heavy neutral lepton decay searches at the NA62 experiment at CERN*. (2020).
- E:** Hurtado, Nicholas and Mir, Hana and Shoemaker, Ian M. and Welch, Eli and Wyenberg, Jason: *Dark Matter-Neutrino Interconversion at COHERENT, Direct Detection, and the Early Universe*. *Phys. Rev. D* **102** 015006 (2020). [arXiv:2005.13384 \[hep-ph\]](#).
- E:** Hostert, Matheus and Kaneta, Kunio and Pospelov, Maxim: *Pair production of dark particles in meson decays*. *Phys. Rev. D* **102** 055016 (2020). FTPI-MINN-20-07, [arXiv:2005.07102 \[hep-ph\]](#).
- E:** He, Xiao-Gang and Ma, Xiao-Dong and Tandean, Jusak and Valencia, German: *Evading the Grossman-Nir bound with $\Delta I = 3/2$ new physics*. *JHEP* **08** 034 (2020). NCTS-PH/2005, [arXiv:2005.02942 \[hep-ph\]](#).
- E:** Gori, Stefania and Perez, Gilad and Tobioka, Kohsaku: *KOTO vs. NA62 Dark Scalar Searches*. *JHEP* **08** 110 (2020). [arXiv:2005.05170 \[hep-ph\]](#).
- E:** Geng, Chao-Qiang and Tandean, Jusak: *Probing new physics with the kaon decays $K \rightarrow \pi \pi \not{E}$* . *Phys. Rev. D* **102** 115021 (2020). NCTS-PH/2011, [arXiv:2009.00608 \[hep-ph\]](#).

- T:** Filimonova, Anastasiia: *Reviving the thermal dark matter paradigm with long-lived particles.* doi:10.11588/heidok.00028649 (2020).
- E:** Filimonova, Anastasiia and Schäfer, Ruth and Westhoff, Susanne: *Probing dark sectors with long-lived particles at BELLE II.* *Phys. Rev. D* **101** 095006 (2020). P3H-19-043, arXiv:1911.03490 [hep-ph].
- A:** Federici, L. and others: *The Gigatracker, the silicon beam tracker for the NA62 experiment at CERN.* *Nucl. Instrum. Meth. A* **958** 162127 (2020).
- E:** Fabbrichesi, Marco and Gabrielli, Emidio and Lanfranchi, Gaia: *The Dark Photon.* doi:10.1007/978-3-030-62519-1 (2020). arXiv:2005.01515 [hep-ph].
- E:** Ertas, Fatih and Kahlhoefer, Felix: *On the interplay between astrophysical and laboratory probes of MeV-scale axion-like particles.* *JHEP* **07** 050 (2020). TTK-20-08, arXiv:2004.01193 [hep-ph].
- E:** Dutta, Bhaskar and Ghosh, Sumit and Li, Tianjun: *Explaining $(g - 2)_{\mu,e}$, the KOTO anomaly and the Mini-BooNE excess in an extended Higgs model with sterile neutrinos.* *Phys. Rev. D* **102** 055017 (2020). MI-TH-2012, arXiv:2006.01319 [hep-ph].
- E:** Deppisch, Frank F. and Fridell, Kåre and Harz, Julia: *Constraining lepton number violating interactions in rare kaon decays.* *JHEP* **12** 186 (2020). TUM-HEP-1274/20, arXiv:2009.04494 [hep-ph].
- E:** Coy, Rupert and Frigerio, Michele and Mescia, Federico and Sumensari, Olcyr: *New physics in $b \rightarrow s\ell\ell$ transitions at one loop.* *Eur. Phys. J. C* **80** 52 (2020). arXiv:1909.08567 [hep-ph].
- A:** Cenci, P. and others: *Status of the NA62 ring imaging Cherenkov detector.* *Nucl. Instrum. Meth. A* **952** 162005 (2020).
- E:** Ceccucci, Augusto and Lazzeroni, Cristina: *Rare kaon decays.* *Comptes Rendus Physique* **21** 107–119 (2020).
- E:** Boyle, P. and Jüttner, A. and HÓgáin, F. Ó and Portelli, A.: *Latest Results on Lattice Calculation Concerning $K \rightarrow \pi\ell^+\ell^-$ Decays.* *J. Phys. Conf. Ser.* **1526** 012015 (2020).
- A:** Boretto, M., NA62 Collaboration: *Prototyping of the trigger-matching software for the NA62 data acquisition upgrade.* *JINST* **15** C06049 (2020).
- E:** Bondarenko, Kyrilo and Boyarsky, Alexey and Bringmann, Torsten and Hufnagel, Marco and Schmidt-Hoberg, Kai and Sokolenko, Anastasia: *Direct detection and complementary constraints for sub-GeV dark matter.* *JHEP* **03** 118 (2020). DESY-19-140, arXiv:1909.08632 [hep-ph].
- A:** Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH.* *JINST* **15** P10025 (2020). arXiv:2009.07581 [physics.ins-det].
- E:** Altmannshofer, Wolfgang and Lehmann, Benjamin V. and Profumo, Stefano: *Cosmological implications of the KOTO excess.* *Phys. Rev. D* **102** 083527 (2020). arXiv:2006.05064 [hep-ph].
- E:** Zupan, Jure: *Introduction to flavour physics.* *CERN Yellow Rep. School Proc.* **6** 181–212 (2019). arXiv:1903.05062 [hep-ph].
- A:** Zamkovsky, M., NA62 Collaboration: *Rare strange particle decays.* (2019). arXiv:1906.08567 [hep-ex].
- A:** Volpe, Roberta: *Search for exotic decays at NA62.* (2019). arXiv:1910.10429 [hep-ex].
- A:** Volpe, Roberta, NA62 Collaboration: *Physics beyond SM with kaons from NA62.* (2019). arXiv:1910.09422 [hep-ex].
- E:** Van Dijk, Maarten and others: *The K12 beamline for the KLEVER experiment.* doi:10.18429/JACoW-IPAC2019-THPGW061 (2019).
- E:** Lehner, Christoph and others, USQCD Collaboration: *Opportunities for Lattice QCD in Quark and Lepton Flavor Physics.* *Eur. Phys. J. A* **55** 195 (2019). FERMILAB-PUB-19-173-T, RBRC-1309, arXiv:1904.09479 [hep-lat].
- E:** Tandean, Jusak: *Rare hyperon decays with missing energy.* *JHEP* **04** 104 (2019). NCTS-PH/1901, arXiv:1901.10447 [hep-ph].
- E:** Rosenthal, M. and others: *Single-muon rate reduction for beam dump operation of the K12 beam line at CERN.* *Int. J. Mod. Phys. A* **34** 1942026 (2019).
- T:** Quílez Lasanta, Pablo: *New dynamics in axions and flavor.* (2019).
- T:** Nava, Jacopo: *Flavour changing neutral currents and axions.* (2019).
- T:** Nakagiri, Kota: *Search for the Decay $K_L \rightarrow \pi^0\nu\bar{\nu}$ at the J-PARC KOTO Experiment.* doi:10.14989/doctor.k21564 (2019).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for production of an invisible dark photon in π^0 decays.* *JHEP* **05** 182 (2019). CERN-EP-2019-048, arXiv:1903.08767 [hep-ex].
- A:** Swallow, J. and others, NA62 Collaboration: *Search for LNV/LFV K^+ decays at the NA62 Experiment at CERN.* (2019).
- A:** Mirra, Marco, NA62 Collaboration: *SEARCH FOR PRODUCTION OF AN INVISIBLE DARK PHOTON FROM π^0 DECAYS AT NA62.* (2019).
- A:** Marchevski, Radoslav, NA62 Collaboration: *Physics beyond the SM with kaons at NA62.* *XXIX International Symposium on Lepton Photon Interactions at High Energies.* *Proceedings of Science LeptonPhoton2019* 088 (2019).
- E:** Li, Gang and Su, Jihui-Ying and Tandean, Jusak: *Flavor-changing hyperon decays with light invisible bosons.* *Phys. Rev. D* **100** 075003 (2019). NCTS-PH/1905, arXiv:1905.08759 [hep-ph].

- E:** Kozhuharov, Venelin: *Searching for dark sector with missing mass technique in fixed target experiments.* [EPJ Web Conf. 212 06001](#) (2019).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Search for heavy neutrinos at CERN SPS.* (2019). NuPhys2018-Kozhuharov, [arXiv:1904.09124 \[hep-ex\]](#).
- E:** Ambrosino, F. and others, KLEVER Project Collaboration: *KLEVER: An experiment to measure $BR(K_L \rightarrow \pi^0 \nu \bar{\nu})$ at the CERN SPS.* (2019). KLEVER-PUB-18-02, [arXiv:1901.03099 \[hep-ex\]](#).
- A:** Kleimenova, Alina, NA62 Collaboration: *Latest results from NA62.* [XXVII International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2019 122](#) (2019).
- E:** Kamenik, J. F.: *FLAVOUR PHYSICS IN VOGUE.* (2019).
- T:** Jerhot, Jan: *Search for Axion-Like Particles at the NA62 experiment.* (2019).
- A:** Jerhot, Jan, NA62 Collaboration: *Search for Exotic Decays with NA62.* [XXIX International Symposium on Lepton Photon Interactions at High Energies. Proceedings of Science LeptonPhoton2019 149](#) (2019).
- E:** Hutcheson, Melissa A., KOTO Collaboration: *Status on the Search for $K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$ with the KOTO Experiment.* (2019). [arXiv:1910.07585 \[hep-ex\]](#).
- E:** Hu, Xiao-Hui and Zhao, Zhen-Xing: *Study of the $s \rightarrow d \nu \bar{\nu}$ rare hyperon decays in the Standard Model and new physics.* [Chin. Phys. C 43 093104](#) (2019). [arXiv:1811.01478 \[hep-ph\]](#).
- E:** Hou, George Wei-Shu: *Perspectives and Outlook from HEP Window on the Universe.* [Int. J. Mod. Phys. A 34 1930002](#) (2019). [arXiv:1901.04033 \[hep-ex\]](#).
- E:** Gori, Stefania: *TASI lectures on flavor physics.* [Theoretical Advanced Study Institute Summer School 2018 "Theory in an Era of Data". Proceedings of Science TASI2018 013](#) (2019).
- E:** Gavela, M. B. and Houtz, R. and Quilez, P. and Del Rey, R. and Sumensari, O.: *Flavor constraints on electroweak ALP couplings.* [Eur. Phys. J. C 79 369](#) (2019). [arXiv:1901.02031 \[hep-ph\]](#).
- A:** Estrada Tristan, Nora Patricia, Na62 Collaboration: *Recent kaon decay results from NA62.* [7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019 040](#) (2019).
- A:** Engelfried, Jürgen: *Dark sector searches in non-LHC experiments.* [7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019 182](#) (2019).
- E:** De Cian, Michel and Descotes-Genon, Sébastien and Massri, Karim: *Proceedings of the Working group 3 "Rare B, D and K decays" for CKM 2018 (Heidelberg).* (2019). [arXiv:1901.04541 \[hep-ex\]](#).
- E:** Christ, Norman H. and Feng, Xu and Portelli, Antonin and Sachrajda, Christopher T., RBC, UKQCD Collaboration: *Lattice QCD study of the rare kaon decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at a near-physical pion mass.* [Phys. Rev. D 100 114506](#) (2019). [arXiv:1910.10644 \[hep-lat\]](#).
- E:** Blanke, Monika: *Constraints on New Physics from B mesons.* [XXIX International Symposium on Lepton Photon Interactions at High Energies. Proceedings of Science LeptonPhoton2019 015](#) (2019). TTP19-027; P3H-19-029; INT-PUB-19-038, [arXiv:1908.09713 \[hep-ph\]](#).
- A:** Baeva, Aigul: *Analysis of the rare decay $K^+ \rightarrow \mu^+ \nu \mu^+ \mu^-$.* [AIP Conf. Proc. 2163 030001](#) (2019).
69. Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays.* [Phys. Lett. B 778 137–145](#) (2018). [arXiv:1712.00297 \[hep-ex\]](#).

129 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* [Phys. Rev. D 110 030001](#) (2024).
- E:** Mori, Kanji and Takiwaki, Tomoya and Kotake, Kei and Horiuchi, Shunsaku: *Two-dimensional models of core-collapse supernova explosions assisted by heavy sterile neutrinos.* [Phys. Rev. D 110 023031](#) (2024). [arXiv:2402.14333 \[astro-ph.HE\]](#).
- E:** Márquez, Juan Manuel and Roig, Pablo and Salinas, Mónica: *$\nu e \rightarrow \nu e$ scattering with massive Dirac or Majorana neutrinos and general interactions.* [JHEP 05 227](#) (2024). [arXiv:2401.14305 \[hep-ph\]](#).
- E:** Marcos, Marta Burgos and de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *ALPs and HNLs at LHC and Muon Colliders: Uncovering New Couplings and Signals.* [doi:10.21468/SciPostPhys.18.3.084](#) (2024). IFT-UAM/CSIC-24-103, [arXiv:2407.14970 \[hep-ph\]](#).
- E:** Liu, Wei and Kulkarni, Suchita and Deppisch, Frank F.: *Revealing the Origin of Neutrino Masses through Displaced Shower Searches in the CMS Muon System.* (2024). [arXiv:2407.20676 \[hep-ph\]](#).
- E:** Gorkavenko, V. and Hrynchak, I. and Khasai, O. and Tsarenkova, M.: *Extension of the Standard Model with Chern–Simons Type Interaction.* [Ukr. J. Phys. 69 832](#) (2024). [arXiv:2412.18691 \[hep-ph\]](#).
- E:** Das, Arindam and Li, Jinmian and Mandal, Sanjoy and Nomura, Takaaki and Zhang, Rao: *Testing tree level TeV scale type-I and type-II seesaw scenarios in μ TRISTAN.* (2024). [arXiv:2410.21956 \[hep-ph\]](#).
- E:** Borysenkova, Yuliia and Gorkavenko, Volodymyr and Hrynchak, Ivan and Khasai, Oleksandr and Tsarenkova, Mariia: *Divergences in the Effective Loop Interaction of the Chern–Simons Bosons with Leptons. The Unitary Gauge Case.* [Ukr. J. Phys. 69 897](#) (2024). [arXiv:2405.00164 \[hep-ph\]](#).

- E:** Bauer, Martin: *Flavour bounds on axions, hidden photons and sterile neutrinos*. (2024). [arXiv:2404.01095 \[hep-ph\]](#).
- E:** Anchordoqui, Luis A. and Antoniadis, Ignatios and Benakli, Karim and Cunat, Jules and Lust, Dieter: *Searching for neutrino-modulino oscillations at the Forward Physics Facility*. *Phys. Lett. B* **850** 138530 (2024). MPP-2023-169; LMU-ASC 29/23, [arXiv:2308.11476 \[hep-ph\]](#).
- E:** Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- E:** Shrock, Robert: *Some Theoretical Aspects of Searches for Heavy Neutrino Emission in Kaon Decays*. *J. Phys. Conf. Ser.* **2446** 012029 (2023).
- E:** Plows, Komninos-John and Lu, Xianguo: *Modeling heavy neutral leptons in accelerator beamlines*. *Phys. Rev. D* **107** 055003 (2023). [arXiv:2211.10210 \[hep-ph\]](#).
- T:** Muñoz Alborno, Víctor: *New Physics Searches from Cosmic-Ray Air-Showers*. (2023).
- E:** de Giorgi, Arturo and Merlo, Luca and Tastet, Jean-Loup: *Probing HNL-ALP couplings at colliders*. *Fortsch. Phys.* **71** 2300027 (2023). IFT-UAM-CSIC-22-152, [arXiv:2212.11290 \[hep-ph\]](#).
- E:** Das, Arindam and Mandal, Sanjoy and Shil, Sujay: *Testing electroweak scale seesaw models at $e\text{-}\gamma$ and $\gamma\gamma$ colliders*. *Phys. Rev. D* **108** 015022 (2023). EPHOU-22-017, [arXiv:2304.06298 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report*. *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- E:** Zhang, Yongchao: *Charged Lepton Flavor Violation at the High-Energy Colliders: Neutrino Mass Relevant Particles*. *Universe* **8** 164 (2022). [arXiv:2201.00376 \[hep-ph\]](#).
- E:** Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull.* **77** 148–151 (2022).
- E:** Shen, Yin-Fa and Ding, Jian-Nan and Qin, Qin: *Monojet search for heavy neutrinos at future Z-factories*. *Eur. Phys. J. C* **82** 398 (2022). [arXiv:2201.05831 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- E:** Abratenko, P. and others, MicroBooNE Collaboration: *Search for long-lived heavy neutral leptons and Higgs portal scalars decaying in the MicroBooNE detector*. *Phys. Rev. D* **106** 092006 (2022). FERMILAB-PUB-22-507, [arXiv:2207.03840 \[hep-ex\]](#).
- E:** Liu, Wei and Li, Jiale and Li, Jing and Sun, Hao: *Testing the seesaw mechanisms via displaced right-handed neutrinos from a light scalar at the HL-LHC*. *Phys. Rev. D* **106** 015019 (2022). [arXiv:2204.03819 \[hep-ph\]](#).
- E:** Liu, Wei and Kulkarni, Suchita and Deppisch, Frank F.: *Heavy neutrinos at the FCC-hh in the $U(1)_{B-L}$ model*. *Phys. Rev. D* **105** 095043 (2022). [arXiv:2202.07310 \[hep-ph\]](#).
- E:** Klose, Philipp: *Factorizing hidden particle production rates*. *JHEP* **08** 265 (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- E:** Hostert, Matheus and Pospelov, Maxim: *Novel multilepton signatures of dark sectors in light meson decays*. *Phys. Rev. D* **105** 015017 (2022). FTPI-MINN-20-34, [arXiv:2012.02142 \[hep-ph\]](#).
- T:** Goodwin, Owen: *Search for Higgs Portal Scalars and Heavy Neutral Leptons Decaying in the MicroBooNE Detector*. (2022). [FERMILAB-THESIS-2022-05](#) .
- E:** Flood, Ina and Porto, Rafael and Schlesinger, Jane and Shuve, Brian and Thum, Maxwell: *Hidden-sector neutrinos and freeze-in leptogenesis*. *Phys. Rev. D* **105** 095025 (2022). [arXiv:2109.10908 \[hep-ph\]](#).
- E:** Elor, Gilly and others: *New Ideas in Baryogenesis: A Snowmass White Paper*. (2022). [arXiv:2203.05010 \[hep-ph\]](#).
- E:** Elahi, Fatemeh and Elor, Gilly and McGehee, Robert: *Charged B mesogenesis*. *Phys. Rev. D* **105** 055024 (2022). LCTP-21-24, MITP-21-041, [arXiv:2109.09751 \[hep-ph\]](#).
- E:** Eijima, Shintaro and Shaposhnikov, Mikhail and Timiryasov, Inar: *Freeze-in and freeze-out generation of lepton asymmetries after baryogenesis in the ν MSM*. *JCAP* **04** 049 (2022). [arXiv:2011.12637 \[hep-ph\]](#).
- A:** Dias, Kereibay: *Search for Heavy Neutral Lepton Production in NA62#*. *Moscow Univ. Phys. Bull.* **77** 220–222 (2022).
- T:** Briano Olvera, Alejandro: *Búsqueda de Producción de Neutrinos Pesados en Decaimientos de Píon a Positrón*. (2022).
- E:** Boyarsky, Alexey and Mikulenko, Oleksii and Ovchinnikov, Maksym and Shchutska, Lesya: *Searches for new physics at SND@LHC*. *JHEP* **03** 006 (2022). [arXiv:2104.09688 \[hep-ph\]](#).
- E:** Borysenkova, Yuliia and Kashko, Pavlo and Tsarenkova, Mariia and Bondarenko, Kyrylo and Gorkavenko, Volodymyr: *Production of Chern–Simons bosons in decays of mesons*. *J. Phys. G* **49** 085003 (2022). [arXiv:2110.14500 \[hep-ph\]](#).

- E:** Barrow, J. L. and others: *Theories and Experiments for Testable Baryogenesis Mechanisms: A Snowmass White Paper*. (2022). [arXiv:2203.07059 \[hep-ph\]](#).
- E:** Asadi, Pouya and others: *Early-Universe Model Building*. (2022). FERMILAB-CONF-22-158-T, [arXiv:2203.06680 \[hep-ph\]](#).
- T:** Vit, Martina: *Search for heavy neutral leptons in pp collision events with three charged leptons using the CMS detector*. (2021).
- T:** Verstraeten, Maja: *Search for sterile neutrinos in the eV and MeV mass range with the SoLid detector*. (2021).
- E:** Tastet, Jean-Loup and Ruchayskiy, Oleg and Timiryasov, Inar: *Reinterpreting the ATLAS bounds on heavy neutral leptons in a realistic neutrino oscillation model*. *JHEP* **12** 182 (2021). [arXiv:2107.12980 \[hep-ph\]](#).
- T:** Tastet, Jean-Loup: *Searching for Heavy Neutral Leptons at CERN*. (2021).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](#) (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. *Phys. Lett. B* **816** 136259 (2021). CERN-EP-2021-018, [arXiv:2101.12304 \[hep-ex\]](#).
- A:** Lollini, Riccardo, NA62 Collaboration: *The $K^+ \rightarrow \pi^+\nu\bar{\nu}$ Decay and New Physics Searches at NA62*. *Acta Phys. Polon. Supp.* **14** 41 (2021).
- E:** Klarić, Juraj and Shaposhnikov, Mikhail and Timiryasov, Inar: *Reconciling resonant leptogenesis and baryogenesis via neutrino oscillations*. *Phys. Rev. D* **104** 055010 (2021). [arXiv:2103.16545 \[hep-ph\]](#).
- E:** Kelly, Kevin James and Machado, Pedro A. N.: *MicroBooNE experiment, NuMI absorber, and heavy neutral leptons*. *Phys. Rev. D* **104** 055015 (2021). FERMILAB-PUB-21-277-T, [arXiv:2106.06548 \[hep-ph\]](#).
- E:** Gorkavenko, Volodymyr M. and Borysenkova, Yuliia R. and Tsarenkova, Mariia S.: *Production of GeV-scale heavy neutral leptons in three-body decays. Comparison with the PYTHIA approach*. *J. Phys. G* **48** 105001 (2021). [arXiv:2103.11494 \[hep-ph\]](#).
- E:** Elor, Gilly and McGehee, Robert: *Making the Universe at 20 MeV*. *Phys. Rev. D* **103** 035005 (2021). [arXiv:2011.06115 \[hep-ph\]](#).
- E:** Dasgupta, Basudeb and Kopp, Joachim: *Sterile Neutrinos*. *Phys. Rept.* **928** 1–63 (2021). [arXiv:2106.05913 \[hep-ph\]](#).
- E:** Cirigliano, Vincenzo and Dekens, Wouter and de Vries, Jordy and Fuyuto, Kaori and Mereghetti, Emanuele and Ruiz, Richard: *Leptonic anomalous magnetic moments in ν SMEFT*. *JHEP* **08** 103 (2021). IFJAN-IV-2021-6, LA-UR-21-24456, [arXiv:2105.11462 \[hep-ph\]](#).
- E:** Chang, Chia-Hung Vincent and Chen, Chuan-Ren and Ho, Shu-Yu and Tseng, Shih-Yen: *Explaining the MiniBooNE anomalous excess via a leptophilic ALP-sterile neutrino coupling*. *Phys. Rev. D* **104** 015030 (2021). KIAS-P21006, [arXiv:2102.05012 \[hep-ph\]](#).
- E:** Bondarenko, Kyyrolo and Boyarsky, Alexey and Klaric, Juraj and Mikulenko, Oleksii and Ruchayskiy, Oleg and Syvolap, Vsevolod and Timiryasov, Inar: *An allowed window for heavy neutral leptons below the kaon mass*. *JHEP* **07** 193 (2021). [arXiv:2101.09255 \[hep-ph\]](#).
- T:** Bolton, Patrick Douglas John: *Exotic Neutrino Interactions as a Probe of Physics Beyond the Standard Model*. (2021).
- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions*. *JHEP* **09** 063 (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- E:** Abdullahi, Asli and Hostert, Matheus and Pascoli, Silvia: *A dark seesaw solution to low energy anomalies: MiniBooNE, the muon ($g\mathbf{I}s - \mathbf{b}\mathbf{I}s^2$), and BaBar*. *Phys. Lett. B* **820** 136531 (2021). FTPI-MINN-20-25, IPPP/20/32, FTPI-MINN-20-25, IPPP/20/32, [arXiv:2007.11813 \[hep-ph\]](#).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays to positrons*. *Phys. Lett. B* **807** 135599 (2020). CERN-EP-2020-089, [arXiv:2005.09575 \[hep-ex\]](#).
- A:** Martellotti, Silvia, NA62 Collaboration: *$K^+ \rightarrow \pi^+\nu\bar{\nu}$ Decay and NP Searches at NA62*. *Acta Phys. Polon. Supp.* **13** 95–102 (2020).
- E:** Lanfranchi, G.: *Feebly-interacting particles: experimental landscape*. *J. Phys. Conf. Ser.* **1526** 012029 (2020).
- A:** Kucerova, Zuzana, NA62 Collaboration: *Recent results in kaon physics. 18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* **028** (2020).
- E:** Krnjaic, Gordan and Marques-Tavares, Gustavo and Redigolo, Diego and Tobioka, Kohsaku: *Probing Muonphilic Force Carriers and Dark Matter at Kaon Factories*. *Phys. Rev. Lett.* **124** 041802 (2020). FERMILAB-PUB-18-665-A, KEK-TH-2105, [arXiv:1902.07715 \[hep-ph\]](#).
- T:** Iacobuzio, Lorenza: *Heavy neutral lepton decay searches at the NA62 experiment at CERN*. (2020).
- T:** Hernández-Cabezudo, Álvaro: *Sterile Neutrino Searches in Neutrino Oscillation Experiments*. [doi:10.5445/IR/1000120255](#) (2020).

- T:** Gelmini, Graciela B. and Kawasaki, Masahiro and Kusenko, Alexander and Murai, Kai and Takhistov, Volodymyr: *Big Bang Nucleosynthesis constraints on sterile neutrino and lepton asymmetry of the Universe*. *JCAP* 09 051 (2020). IPMU 20-0051, [arXiv:2005.06721 \[hep-ph\]](#).
- E:** Fischer, Oliver and Hernández-Cabezudo, Álvaro and Schwetz, Thomas: *Explaining the MiniBooNE excess by a decaying sterile neutrino with mass in the 250 MeV range*. *Phys. Rev. D* 101 075045 (2020). [arXiv:1909.09561 \[hep-ph\]](#).
- A:** Duk, V., NA62 Collaboration: *Searches for lepton flavor and lepton number violation in K^+ decays with NA62*. *J. Phys. Conf. Ser.* 1526 012014 (2020).
- E:** Drewes, Marco and Hajer, Jan: *Heavy Neutrinos in displaced vertex searches at the LHC and HL-LHC*. *JHEP* 02 070 (2020). CP3-19-11, [arXiv:1903.06100 \[hep-ph\]](#).
- E:** de Gouvêa, André and Dev, P. S. Bhupal and Dutta, Bhaskar and Ghosh, Tathagata and Han, Tao and Zhang, Yongchao: *Leptonic Scalars at the LHC*. *JHEP* 07 142 (2020). PITT-PACC 1909, MI-TH-1936, [arXiv:1910.01132 \[hep-ph\]](#).
- E:** Coloma, Pilar and Hernández, Pilar and Muñoz, Víctor and Shoemaker, Ian M.: *New constraints on Heavy Neutral Leptons from Super-Kamiokande data*. *Eur. Phys. J. C* 80 235 (2020). [arXiv:1911.09129 \[hep-ph\]](#).
- E:** Chrzaszcz, Marcin and Drewes, Marco and Gonzalo, Tomás E. and Harz, Julia and Krishnamurthy, Suraj and Weniger, Christoph: *A frequentist analysis of three right-handed neutrinos with GAMBIT*. *Eur. Phys. J. C* 80 569 (2020). gambit-physics-2019, [arXiv:1908.02302 \[hep-ph\]](#).
- E:** Bolton, Patrick D. and Deppisch, Frank F. and Bhupal Dev, P. S.: *Neutrinoless double beta decay versus other probes of heavy sterile neutrinos*. *JHEP* 03 170 (2020). [arXiv:1912.03058 \[hep-ph\]](#).
- E:** Boiarska, Iryna and Bondarenko, Kyrylo and Boyarsky, Alexey and Ovchinnikov, Maksym and Ruchayskiy, Oleg and Sokolenko, Anastasia: *Light scalar production from Higgs bosons and FASER 2*. *JHEP* 05 049 (2020). [arXiv:1908.04635 \[hep-ph\]](#).
- E:** Beacham, J. and others: *Physics Beyond Colliders at CERN: Beyond the Standard Model Working Group Report*. *J. Phys. G* 47 010501 (2020). CERN-PBC-REPORT-2018-007, [arXiv:1901.09966 \[hep-ex\]](#).
- E:** Ballett, Peter and Hostert, Matheus and Pascoli, Silvia: *Dark Neutrinos and a Three Portal Connection to the Standard Model*. *Phys. Rev. D* 101 115025 (2020). IPPP/19/19/FTPI-MINN-20-17, IPPP/19/19, [arXiv:1903.07589 \[hep-ph\]](#).
- E:** Argüelles, Carlos and Coloma, Pilar and Hernández, Pilar and Muñoz, Víctor: *Searches for Atmospheric Long-Lived Particles*. *JHEP* 02 190 (2020). [arXiv:1910.12839 \[hep-ph\]](#).
- A:** Zamkovsky, M., NA62 Collaboration: *Rare strange particle decays*. (2019). [arXiv:1906.08567 \[hep-ex\]](#).
- A:** Zamkovsky, Michal, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. *The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018* 188 (2019).
- A:** Volpe, Roberta: *Search for exotic decays at NA62*. (2019). [arXiv:1910.10429 \[hep-ex\]](#).
- A:** Trilov, Stoyan Miroslavov, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. *The 20th International Workshop on Neutrinos. Proceedings of Science NuFACT2018* 127 (2019).
- A:** Trilov, Stoyan Miroslavov, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. *The 20th International Workshop on Neutrinos. Proceedings of Science NuFACT2018* 042 (2019).
- E:** Ahdida, C. and others, SHiP Collaboration: *Sensitivity of the SHiP experiment to Heavy Neutral Leptons*. *JHEP* 04 077 (2019). [arXiv:1811.00930 \[hep-ph\]](#).
- T:** Porzio, Salvatore Davide: *Searches for Heavy Neutral Lepton Decays in the MicroBooNE Detector*. doi:10.2172/1576526 (2019). FERMILAB-THESIS-2019-14 .
- E:** Aguilar-Arevalo, A. and others, PIENU Collaboration: *Search for heavy neutrinos in $\pi \rightarrow \mu\nu$ decay*. *Phys. Lett. B* 798 134980 (2019). [arXiv:1904.03269 \[hep-ex\]](#).
- E:** Pascoli, Silvia: *Neutrino physics*. *CERN Yellow Rep. School Proc.* 6 213–259 (2019).
- A:** Peruzzo, Letizia and others, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62*. *Frascati Phys. Ser.* 69 194–199 (2019).
- A:** Swallow, J. and others, NA62 Collaboration: *Search for LNV/LFV K^+ decays at the NA62 Experiment at CERN*. (2019).
- A:** Moulson, Matthew, NA62 Collaboration: *Searches for exotic particles at NA62*. *The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018* 629 (2019).
- A:** Lollini, R., NA62 Collaboration: *Search for exotic processes with the NA62 experiment*. *Nuovo Cim. C* 42 151 (2019).
- E:** Krasnov, Igor: *DUNE prospects in the search for sterile neutrinos*. *Phys. Rev. D* 100 075023 (2019). [arXiv:1902.06099 \[hep-ph\]](#).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Search for heavy neutrinos at CERN SPS*. (2019). NuPhys2018-Kozhuharov, [arXiv:1904.09124 \[hep-ex\]](#).

- T:** MFKlaric, Juraj: *Right-handed Neutrinos: From the Early Universe to Experiments*. (2019).
- A:** Jerhot, Jan, NA62 Collaboration: *Search for Exotic Decays with NA62*. *XXIX International Symposium on Lepton Photon Interactions at High Energies*. *Proceedings of Science LeptonPhoton2019* 149 (2019).
- A:** Fantechi, Riccardo: *Review of NA62 and NA48 Physics Results*. doi:10.1142/9789811202339%5F0085 (2019).
- A:** Estrada-Tristán, Nora Patricia, NA62 Collaboration: *Heavy Neutral Lepton Search at NA62*. *Springer Proc. Phys.* 234 167–172 (2019).
- A:** Estrada Tristan, Nora Patricia, Na62 Collaboration: *Recent kaon decay results from NA62*. *7th Annual Conference on Large Hadron Collider Physics*. *Proceedings of Science LHCP2019* 040 (2019).
- A:** Engelfried, Jürgen: *Dark sector searches in non-LHC experiments*. *7th Annual Conference on Large Hadron Collider Physics*. *Proceedings of Science LHCP2019* 182 (2019).
- E:** Chun, Eung Jin and Das, Arindam and Mandal, Sanjoy and Mitra, Manimala and Sinha, Nita: *Sensitivity of Lepton Number Violating Meson Decays in Different Experiments*. *Phys. Rev. D* 100 095022 (2019). OU-HEP-1016, IP/BBSR/2019-4, arXiv:1908.09562 [hep-ph].
- A:** Cenci, Patrizia, NA62 Collaboration: *Search for heavy neutral leptons with kaon experiments at CERN*. *J. Phys. Conf. Ser.* 1137 012022 (2019).
- T:** Cazzato, Eros: *Prospects for testing electroweak scale sterile neutrinos at future colliders*. doi:10.5451/unibas-007087512 (2019).
- E:** Buonocore, Luca and Frugiuele, Claudia and Maltoni, Fabio and Mattelaer, Olivier and Tramontano, Francesco: *Event generation for beam dump experiments*. *JHEP* 05 028 (2019). CP3-18-70, CP3-18-70, arXiv:1812.06771 [hep-ph].
- E:** Bryman, D. A. and Shrock, R.: *Improved Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* 100 053006 (2019). UBC-TRIUMF-Stony Brook preprint (YITP-SB-2019-2), arXiv:1904.06787 [hep-ph].
- E:** Bryman, D. A. and Shrock, R.: *Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* 100 073011 (2019). TRIUMF-UBC-Stony Brook preprint (YITP-SB-2019-9), arXiv:1909.11198 [hep-ph].
- E:** Boyarsky, A. and Drewes, M. and Lasserre, T. and Mertens, S. and Ruchayskiy, O.: *Sterile neutrino Dark Matter*. *Prog. Part. Nucl. Phys.* 104 1–45 (2019). arXiv:1807.07938 [hep-ph].
- E:** Boiarska, Iryna and Bondarenko, Kyrylo and Boyarsky, Alexey and Gorkavenko, Volodymyr and Ovchynnikov, Maksym and Sokolenko, Anastasia: *Phenomenology of GeV-scale scalar portal*. *JHEP* 11 162 (2019). arXiv:1904.10447 [hep-ph].
- E:** Boiarska, Iryna and Bondarenko, Kyrylo and Boyarsky, Alexey and Eijima, Shintaro and Ovchynnikov, Maksym and Ruchayskiy, Oleg and Timiryasov, Inar: *Probing baryon asymmetry of the Universe at LHC and SHiP*. (2019). arXiv:1902.04535 [hep-ph].
- E:** Abada, Asmaa and Arcadi, Giorgio and Domcke, Valerie and Drewes, Marco and Klaric, Juraj and Lucente, Michele: *Low-scale leptogenesis with three heavy neutrinos*. *JHEP* 01 164 (2019). CP3-18-59, DESY 18-174, DESY-18-174, LPT-Orsay-18-85, arXiv:1810.12463 [hep-ph].
- A:** Zamkovsky, Michal, NA62 Collaboration: *Search for heavy neutral leptons at the NA62 experiment at CERN*. *Int. J. Mod. Phys. A* 33 1844026 (2018).
- E:** Rembiasz, Tomasz and Obergaullinger, Martin and Masip, Manuel and Pérez-García, M. Ángeles and Aloy, Miguel-Ángel and Albertus, Conrado: *Heavy sterile neutrinos in stellar core-collapse*. *Phys. Rev. D* 98 103010 (2018). arXiv:1806.03300 [astro-ph.HE].
- T:** Negro, Giulia: *Search for heavy neutrinos with the CMS experiment and studies for the upgrade of its electromagnetic calorimeter*. (2018). tel-01922565, 2018SACLS308.
- A:** Lollini, Riccardo, NA62 Collaboration: *Search for exotic particle at NA62*. *XXVI International Workshop on Deep-Inelastic Scattering and Related Subjects*. *Proceedings of Science DIS2018* 088 (2018).
- E:** Krasnov, Igor and Grigorin-Ryabov, Timofey: *Numerical estimate of minimal active-sterile neutrino mixing for sterile neutrinos at GeV scale*. *EPJ Web Conf.* 191 03003 (2018). arXiv:1802.04728 [hep-ph].
- E:** Kling, Felix and Trojanowski, Sebastian: *Heavy Neutral Leptons at FASER*. *Phys. Rev. D* 97 095016 (2018). UCI-TR-2017-18, arXiv:1801.08947 [hep-ph].
- E:** Kayser, Boris: *Addressing the Majorana vs. Dirac Question Using Neutrino Decays*. (2018). FERMILAB-CONF-18-186-T, arXiv:1805.07523 [hep-ph].
- E:** Drewes, Marco and Hajer, Jan and Klaric, Juraj and Lanfranchi, Gaia: *Perspectives to find heavy neutrinos with NA62*. (2018). ISBN:9791096879076, arXiv:1806.00100 [hep-ph].
- E:** Drewes, Marco and Hajer, Jan and Klaric, Juraj and Lanfranchi, Gaia: *NA62 sensitivity to heavy neutral leptons in the low scale seesaw model*. *JHEP* 07 105 (2018). arXiv:1801.04207 [hep-ph].
- A:** Döbrich, Babette, NA62 Collaboration: *Dark Sectors at fixed targets: The example of NA62*. *Frascati Phys. Ser.* 66 312–327 (2018). arXiv:1807.10170 [hep-ex].
- A:** Cenci, Patrizia, NA62 Collaboration: *Searches for Heavy Neutrinos at the CERN SPS*. (2018). arXiv:1804.08656 [hep-ex].
- A:** Brunetti, Maria Brigida and Gonnella, Francesco and Iacobuzio, Lorenza, NA62 Collaboration: *Search for Exotic Particles at the NA62 Experiment*. *Universe* 4 119 (2018).

- E:** Brdar, Vedran and Rodejohann, Werner and Xu, Xun-Jie: *Producing a new Fermion in Coherent Elastic Neutrino-Nucleus Scattering: from Neutrino Mass to Dark Matter*. *JHEP* **12** 024 (2018). [arXiv:1810.03626 \[hep-ph\]](#).
- T:** Bondarenko, K.: *Plan B for particle physics: finding long lived particles at CERN*. (2018).
- E:** Bondarenko, Kyrylo and Boyarsky, Alexey and Gorbunov, Dmitry and Ruchayskiy, Oleg: *Phenomenology of GeV-scale Heavy Neutral Leptons*. *JHEP* **11** 032 (2018). [arXiv:1805.08567 \[hep-ph\]](#).
- A:** Bician, Lubos: *Search for Heavy Neutral Lepton production in K^+ decays at NA62*. *An Alpine LHC Physics Summit. Proceedings of Science ALPS2018* 005 (2018).
- E:** Antusch, Stefan and Cazzato, Eros and Drewes, Marco and Fischer, Oliver and Garbrecht, Björn and Gueter, Dario and Klaric, Juraj: *Probing the Seesaw Mechanism and Leptogenesis with the International Linear Collider*. (2018). [arXiv:1801.06534 \[hep-ph\]](#).
- E:** Antusch, Stefan and Cazzato, Eros and Drewes, Marco and Fischer, Oliver and Garbrecht, Björn and Gueter, Dario and Klaric, Juraj: *Probing Leptogenesis at Future Colliders*. *JHEP* **09** 124 (2018). TUM-1160/18, CP3-17-48, [arXiv:1710.03744 \[hep-ph\]](#).
- E:** Abada, Asmaa and Teixeira, Ana M.: *Heavy neutral leptons and high-intensity observables*. *Front. in Phys.* **6** 142 (2018). LPT-Orsay-18-86, [arXiv:1812.08062 \[hep-ph\]](#).
68. Anzivino, G. and others: *Precise mirror alignment and basic performance of the RICH detector of the NA62 experiment at CERN*. *JINST* **13** P07012 (2018). [arXiv:1809.04026 \[physics.ins-det\]](#).

22 Citations:

- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment*. (2025).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN*. *EPJ Web Conf.* **314** 00003 (2024).
- A:** Piccini, Mauro, NA62 Collaboration: *Measurement of the radiative decay $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012015 (2023).
- A:** Panichi, I. and others, NA62 Collaboration: *High level performance of the NA62 RICH detector*. *Nucl. Instrum. Meth. A* **1045** 167583 (2023).
- A:** Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. *J. Phys. Conf. Ser.* **2446** 012022 (2023).
- A:** Jerhot, Jan, NA62 Collaboration: *New results for searches of exotic decays with NA62 in beam-dump mode*. *21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023* 073 (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- A:** Duk, V. and others: *Particle identification with the NA62 RICH detector*. *Nucl. Instrum. Meth. A* **1057** 168689 (2023).
- A:** Jerhot, Jan and others, NA62 Collaboration: *NA62 results on Dark Sector searches*. *Frascati Phys. Ser.* **74** 269–284 (2022).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- A:** Volpe, R. and others: *The role of the NA62 RICH in the $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ measurement*. *Nucl. Instrum. Meth. A* **952** 161802 (2020).
- A:** Turisini, M., NA62 Collaboration: *Design, performance and perspective of the NA62-RICH*. *JINST* **15** C09013 (2020).
- A:** Pepe, Monica, A62 Collaboration: *Performance of the NA62 ring imaging Cherenkov detector*. *Nucl. Instrum. Meth. A* **958** 162026 (2020).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *An investigation of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **11** 042 (2020). CERN-EP-2020-132, [arXiv:2007.08218 \[hep-ex\]](#).
- A:** Lenti, M.: *Final performances of the NA62 RICH detector*. *JINST* **15** C03027 (2020).
- A:** Cenci, P. and others: *Status of the NA62 ring imaging Cherenkov detector*. *Nucl. Instrum. Meth. A* **952** 162005 (2020).
- A:** Brizioli, F. and Lollini, R., NA62 Collaboration: *The RICH detector of the NA62 experiment*. *J. Phys. Conf. Ser.* **1526** 012033 (2020).
- A:** Anzivino, G. and others: *NA62 RICH performance: measurement and optimization*. *Nucl. Instrum. Meth. A* **952** 161736 (2020).
- A:** Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH*. *JINST* **15** P10025 (2020). [arXiv:2009.07581 \[physics.ins-det\]](#).

- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ using the decay-in-flight technique*. *Phys. Lett. B* **791** 156–166 (2019). CERN-EP-2018-314, [arXiv:1811.08508 \[hep-ex\]](#).
- A: Brizioli, Francesco: *The RICH detector of the NA62 experiment at CERN*. doi:10.1109/NSS/MIC42101.2019.9059969 (2019).
67. Lazzeroni, Cristina and others, NA62 Collaboration: *Search for heavy neutrinos in $K^+ \rightarrow \mu^+ \nu_\mu$ decays*. *Phys. Lett. B* **772** 712–718 (2017). [arXiv:1705.07510 \[hep-ex\]](#).
- 49 Citations:
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E: Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* **51** 120501 (2024). FERMILAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- E: Shrock, Robert: *Some Theoretical Aspects of Searches for Heavy Neutrino Emission in Kaon Decays*. *J. Phys. Conf. Ser.* **2446** 012029 (2023).
- E: Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons*. *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- T: Verbeke, Willem: *Searches for undiscovered processes using the multilepton final state in proton-proton collisions at CMS*. (2022). CERN-THESIS-2022-057.
- E: Shrock, Robert: *Some Recent Results on Physics Beyond the Standard Model*. *Moscow Univ. Phys. Bull.* **77** 148–151 (2022).
- E: Shen, Yin-Fa and Ding, Jian-Nan and Qin, Qin: *Monojet search for heavy neutrinos at future Z-factories*. *Eur. Phys. J. C* **82** 398 (2022). [arXiv:2201.05831 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E: Krnjaic, G. and others: *A Snowmass Whitepaper: Dark Matter Production at Intensity-Frontier Experiments*. (2022). FERMILAB-PUB-22-497-T, [arXiv:2207.00597 \[hep-ph\]](#).
- T: Briano Olvera, Alejandro: *Búsqueda de Producción de Neutrinos Pesados en Decaimientos de Píon a Positrón*. (2022).
- E: Kelly, Kevin James and Machado, Pedro A. N.: *MicroBooNE experiment, NuMI absorber, and heavy neutral leptons*. *Phys. Rev. D* **104** 055015 (2021). FERMILAB-PUB-21-277-T, [arXiv:2106.06548 \[hep-ph\]](#).
- E: de Melo, Téo B. and Kovalenko, Sergey and Queiroz, Farinaldo S. and Siqueira, C. and Villamizar, Yoxara S.: *Rare kaon decay to missing energy: Implications of the NA62 result for a Z model*. *Phys. Rev. D* **103** 115001 (2021). [arXiv:2102.06262 \[hep-ph\]](#).
- E: Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- T: Iacobuzio, Lorenza: *Heavy neutral lepton decay searches at the NA62 experiment at CERN*. (2020).
- E: de Gouvêa, André and Dev, P. S. Bhupal and Dutta, Bhaskar and Ghosh, Tathagata and Han, Tao and Zhang, Yongchao: *Leptonic Scalars at the LHC*. *JHEP* **07** 142 (2020). PITT-PACC 1909, MI-TH-1936, [arXiv:1910.01132 \[hep-ph\]](#).
- E: Pascoli, Silvia: *Neutrino physics*. *CERN Yellow Rep. School Proc.* **6** 213–259 (2019).
- A: Kozhuharov, Venelin, NA62 Collaboration: *Search for heavy neutrinos at CERN SPS*. (2019). NuPhys2018-Kozhuharov, [arXiv:1904.09124 \[hep-ex\]](#).
- A: Fantechi, Riccardo: *Review of NA62 and NA48 Physics Results*. doi:10.1142/9789811202339%5F0085 (2019).
- A: Estrada-Tristán, Nora Patricia, NA62 Collaboration: *Heavy Neutral Lepton Search at NA62*. *Springer Proc. Phys.* **234** 167–172 (2019).
- A: Estrada Tristan, Nora Patricia, Na62 Collaboration: *Recent kaon decay results from NA62*. *7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019* 040 (2019).
- A: Engelfried, Jürgen: *Dark sector searches in non-LHC experiments*. *7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019* 182 (2019).
- E: Curtin, David and others: *Long-Lived Particles at the Energy Frontier: The MATHUSLA Physics Case*. *Rept. Prog. Phys.* **82** 116201 (2019). FERMILAB-PUB-18-264-T, [arXiv:1806.07396 \[hep-ph\]](#).
- A: Cenci, Patrizia, NA62 Collaboration: *Search for heavy neutral leptons with kaon experiments at CERN*. *J. Phys. Conf. Ser.* **1137** 012022 (2019).
- E: Bryman, D. A. and Shrock, R.: *Improved Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* **100** 053006 (2019). UBC-TRIUMF-Stony Brook preprint (YITP-SB-2019-2), [arXiv:1904.06787 \[hep-ph\]](#).
- E: Bryman, D. A. and Shrock, R.: *Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* **100** 073011 (2019). TRIUMF-UBC-Stony Brook preprint (YITP-SB-2019-9), [arXiv:1909.11198 \[hep-ph\]](#).

- E:** Aad, Georges and others, ATLAS Collaboration: *Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector.* *JHEP* **10** 265 (2019). CERN-EP-2019-071, [arXiv:1905.09787 \[hep-ex\]](#).
- A:** Zamkovsky, Michal, NA62 Collaboration: *Search for heavy neutral leptons at the NA62 experiment at CERN.* *Int. J. Mod. Phys. A* **33** 1844026 (2018).
- A:** Trilov, Stoyan, NA62 Collaboration: *Recent results from NA62. XVII International Conference on Hadron Spectroscopy and Structure. Proceedings of Science Hadron2017* 181 (2018).
- E:** Pruna, Giovanni Marco: *The Standard Model and low-energy experiments: from lepton-flavour violation to dark photons.* *Nuovo Cim. C* **41** 51 (2018). IFAE2017-PRUNA, PSI-PR-17-12, [arXiv:1706.09408 \[hep-ph\]](#).
- A:** Peruzzo, Letizia, NA48/2, NA62 Collaboration: *Search for heavy neutrinos at the NA48/2 and NA62 experiments at CERN.* *EPJ Web Conf.* **182** 02095 (2018).
- E:** Sadovsky, A. S. and others, OKA Collaboration: *Search for heavy neutrino in $K^+ \rightarrow \mu^+ \nu_H$ decay.* *Eur. Phys. J. C* **78** 92 (2018). [arXiv:1709.01473 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays.* *Phys. Lett. B* **778** 137–145 (2018). CERN-EP-2017-311, [arXiv:1712.00297 \[hep-ex\]](#).
- A:** Döbrich, Babette, NA62 Collaboration: *Dark Sectors at fixed targets: The example of NA62.* *Frascati Phys. Ser.* **66** 312–327 (2018). [arXiv:1807.10170 \[hep-ex\]](#).
- E:** Chun, E. J. and others: *Probing Leptogenesis.* *Int. J. Mod. Phys. A* **33** 1842005 (2018). [arXiv:1711.02865 \[hep-ph\]](#).
- A:** Cenci, Patrizia, NA62 Collaboration: *Searches for Heavy Neutrinos at the CERN SPS.* (2018). [arXiv:1804.08656 \[hep-ex\]](#).
- A:** Bician, Lubos: *Search for Heavy Neutral Lepton production in K^+ decays at NA62. An Alpine LHC Physics Summit. Proceedings of Science ALPS2018* 005 (2018).
- A:** Bician, Lubos, NA62 Collaboration: *Limits on Heavy Neutrinos at NA48/2 and NA62.* *Int. J. Mod. Phys. Conf. Ser.* **46** 1860043 (2018).
- E:** Batell, Brian and Han, Tao and McKeen, David and Shams Es Haghi, Barmak: *Thermal Dark Matter Through the Dirac Neutrino Portal.* *Phys. Rev. D* **97** 075016 (2018). PITT-PACC-1710, [arXiv:1709.07001 \[hep-ph\]](#).
- E:** Antusch, Stefan and Cazzato, Eros and Drewes, Marco and Fischer, Oliver and Garbrecht, Björn and Gueter, Dario and Klaric, Juraj: *Probing the Seesaw Mechanism and Leptogenesis with the International Linear Collider.* (2018). [arXiv:1801.06534 \[hep-ph\]](#).
- E:** Abada, Asmaa and Teixeira, Ana M.: *Heavy neutral leptons and high-intensity observables.* *Front. in Phys.* **6** 142 (2018). LPT-Orsay-18-86, [arXiv:1812.08062 \[hep-ph\]](#).
- E:** Yushchenko, O. P., OKA Collaboration: *Investigating Charged-Kaon Decays in the OKA Experiment.* *Yad. Fiz.* **8** 361–366 (2017).
- E:** Sadovsky, Alexander, OKA Collaboration: *Search for heavy neutrino in leptonic decays of K^+ .* *J. Phys. Conf. Ser.* **934** 012009 (2017).
- E:** Mermod, Philippe, SHiP Collaboration: *Prospects of the SHiP and NA62 experiments at CERN for hidden sector searches. The 19th International Workshop on Neutrinos from Accelerators NUFACT2017. Proceedings of Science NuFact2017* 139 (2017). [arXiv:1712.01768 \[hep-ex\]](#).
- A:** Massri, Karim: *New limits on heavy neutrinos from Kaon experiments at CERN.* *Nuovo Cim. C* **40** 170 (2017). [arXiv:1706.03553 \[hep-ex\]](#).
- A:** Marchevski, Radoslav, NA62 Collaboration: *NA48/62 latest results. The 15th International Conference on Flavor Physics & CP Violation. Proceedings of Science FPCP2017* 004 (2017).
- A:** Lanfranchi, Gaia, NA62 Collaboration: *Search for Hidden Sector particles at NA62. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017* 301 (2017).
- A:** Koval, Michal, NA62 Collaboration: *New limits on heavy neutrino from NA62. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017* 116 (2017).
- A:** Kholodenko, Sergey, NA62 Collaboration: *New limits on heavy neutrino from NA62.* *J. Phys. Conf. Ser.* **934** 012002 (2017).
66. Cortina Gil, Eduardo and others, NA62 Collaboration: *The Beam and detector of the NA62 experiment at CERN.* *JINST* **12** P05025 (2017). [arXiv:1703.08501 \[physics.ins-det\]](#).

448 Citations:

- E:** Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons.* *JHEP* **02** 140 (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- A:** Plini, L. and Tinti G. and Spadaro, T. and Galasso F.: *Graph Neural Networks for particle tracking in NA62 Experiment.* *Nuovo Cim. C* **48** 149 (2025).
- T:** Panichi, Ilaria: *Search for a dark matter mediator (X) in the $K^+ \rightarrow \mu^+ \nu_\mu X$, $X \rightarrow \gamma\gamma$ decay from the high-intensity K^+ beam of the CERN NA62 experiment.* (2025).

- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for hadronic decays of feebly-interacting particles at NA62*. (2025). CERN-EP-2025-012, [arXiv:2502.04241 \[hep-ex\]](#).
- A:** Akmete, A. and others, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. 10th International Conference on Quarks and Nuclear Physics. Proceedings of Science QNP2024 222* (2025).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *First detection of a tagged neutrino in the NA62 experiment. Phys. Lett. B 863 139345* (2025). CERN-EP-2024-324, [arXiv:2412.04033 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio. JHEP 02 191* (2025). CERN-EP-2024-343, [arXiv:2412.12015 \[hep-ex\]](#).
- E:** Martin Camalich, Jorge and Ziegler, Robert: *Flavor phenomenology of light dark sectors. doi:10.1146/annurev-nucl-121423-100931* (2025). [arXiv:2503.17323 \[hep-ph\]](#).
- A:** Lezki, Samet: *First NA62 search for long-lived new physics particle hadronic decays. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 269* (2025).
- E:** Fry, John and others, KOTO Collaboration: *Proposal of the KOTO II experiment*. (2025). [arXiv:2501.14827 \[hep-ex\]](#).
- A:** Kleimenova, Alina, NA62 Collaboration: *Latest results for searches of exotic decays with NA62 in beam-dump mode. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 132* (2025).
- E:** Garcia, Giovanni Dalla Valle and Kahlhoefer, Felix and Ovchinnikov, Maksym and Schwetz, Thomas: *Not-so-inelastic Dark Matter. JHEP 02 127* (2025). P3H-24-028, TTP24-011, [arXiv:2405.08081 \[hep-ph\]](#).
- A:** Fiorenza, Renato and others: *Search for Physics beyond the Standard Model at NA62. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 445* (2025).
- E:** de Paula Oliveira, Cristiane: *Produção de partículas tipo-áxion e fótons escuros nas colisões elétron-íon e nas colisões de íons pesados*. (2025).
- E:** Cheng, Hsin-Chia and Jiang, Xu-Hui and Li, Lingfeng: *Phenomenology of electroweak portal dark showers: high energy direct probes and low energy complementarity. JHEP 01 149* (2025). [arXiv:2408.13304 \[hep-ph\]](#).
- E:** Cheek, Andrew and Min, Ui: *Using ΔN_{eff} to constrain preferred axion model dark matter. JCAP 03 014* (2025). [arXiv:2411.17320 \[hep-ph\]](#).
- E:** Chathirathas, Kierthika and Ferber, Torben and Kahlhoefer, Felix and Morandini, Alessandro: *Finding excesses in model parameter space. Eur. Phys. J. C 85 149* (2025). TTP24-027, P3H-24-051, [arXiv:2407.20329 \[hep-ph\]](#).
- A:** Ceoletta, Marco, NA62 Collaboration: *Searches for Lepton Flavour and Number Violation and Hidden Sector Particles at NA62. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 133* (2025).
- A:** Boboc, Petre-Constantin, NA62 Collaboration: *Latest results from precision measurements at the NA62 experiment. 31st International Workshop on Deep Inelastic Scattering. Proceedings of Science DIS2024 123* (2025).
- E:** Bai, Yang and Westhoff, Susanne: *Darkonia at colliders. JHEP 04 042* (2025). Nikhef 2024-018, [arXiv:2412.03677 \[hep-ph\]](#).
- E:** Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3*. (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- A:** Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment. 42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024 446* (2025).
- T:** Zuniga Moreno, Erick Israel: *Medición de $\mathcal{B}(K^+ \rightarrow e^+ \nu_e)/\mathcal{B}(K^+ \rightarrow \pi^0 e^+ \nu_e)$* . (2024).
- A:** Zamkovsky, M. and Lichard, P., NA62 Collaboration: *Constant Fraction Discriminator for NA62 experiment at CERN. JINST 19 C03002* (2024).
- E:** Yang, Kwei-Chou: *Self-interacting forbidden dark matter under a cannibally co-decaying phase. JHEP 06 005* (2024). CYCU-HEP-23-04, [arXiv:2306.17037 \[hep-ph\]](#).
- E:** Wanke, Rainer: *Future Experiments of Kaon Physics. EPJ Web Conf. 312 03002* (2024).
- T:** Urrea González, Salvador: *New Physics at Neutrino Detectors*. (2024).
- A:** Tomczak, Adam Mateusz: *First observation of the rare decay $K^+ \rightarrow \mu^+ \nu_\mu \mu^+ \mu^-$ at the NA62 experiment*. (2024). CERN-THESIS-2024-346.
- E:** Abazov, V. and others, SPD Collaboration: *Technical Design Report of the Spin Physics Detector at NICA. Natural Sci. Rev. 1 1* (2024). [arXiv:2404.08317 \[hep-ex\]](#).
- E:** Song, Huayang and Sun, Hao and Yu, Jiang-Hao: *Effective field theories of axion, ALP and dark photon. JHEP 01 161* (2024). [arXiv:2305.16770 \[hep-ph\]](#).
- E:** Song, Huayang and Sun, Hao and Yu, Jiang-Hao: *Complete EFT operator bases for dark matter and weakly-interacting light particle. JHEP 05 103* (2024). [arXiv:2306.05999 \[hep-ph\]](#).
- A:** Soldani, M.: *Physics Beyond the Standard Model with the NA62 Experiment at CERN. Acta Phys. Polon. Supp. 17 6–A18* (2024).
- A:** Schubert, Jonathan Leon, NA62 Collaboration: *New results for searches of exotic decays with NA62 in beam dump mode. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 045* (2024).

- A:** Sanders, Jack, NA62 Collaboration: *A new hydrogen-filled Cherenkov detector for Kaon tagging at the NA62 experiment at CERN*. *JINST* **19** C05026 (2024). [arXiv:2401.09876 \[hep-ex\]](#).
- A:** Rosa, Ilaria, NA62 Collaboration: *Latest results from the NA62 experiment at CERN: Precision measurements and searches in beam-dump mode*. *Nuovo Cim. C* **47** 91 (2024).
- A:** Romano, Angela: *Status and Prospects of $K \rightarrow \pi\nu\bar{\nu}$ at NA62 and KOTO*. *20th International Conference on B-Physics at Frontier Machines*. *Proceedings of Science BEAUTY2023* 050 (2024).
- E:** Qasim, Shah Rukh and Owen, Patrick and Serra, Nicola: *Physics Instrument Design with Reinforcement Learning*. (2024). [arXiv:2412.10237 \[physics.ins-det\]](#).
- E:** Plakias, I. and Sumensari, O.: *Lepton flavor violation in semileptonic observables*. *Phys. Rev. D* **110** 035016 (2024). [arXiv:2312.14070 \[hep-ph\]](#).
- E:** Pica, Lorenzo, LHCb Collaboration: *Selecting long-lived particles in the first trigger level at the LHC*. *Corfu Summer Institute 2023 "School and Workshops on Elementary Particle Physics and Gravity"*. *Proceedings of Science CORFU2023* 015 (2024). [arXiv:2405.16170 \[hep-ex\]](#).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Physics beyond the Standard Model with the NA62 experiment at CERN*. *8th Symposium on Prospects in the Physics of Discrete Symmetries*. *Proceedings of Science DISCRETE2022* 071 (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Precision measurements with Kaons at CERN*. *8th Symposium on Prospects in the Physics of Discrete Symmetries*. *Proceedings of Science DISCRETE2022* 070 (2024).
- A:** Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics*. *Proceedings of Science EPS-HEP2023* 335 (2024).
- E:** Bertelli, S. and others, PADME Collaboration: *Characterization of the PADME positron beam for the X17 measurement*. *JHEP* **08** 121 (2024). [arXiv:2405.07203 \[hep-ex\]](#).
- T:** Nakkalil, Keerthi: *Upgrade of the ATLAS tracking detector and measurement of the Higgs boson production cross-section at 13.6 TeV*. (2024). CERN-THESIS-2024-270.
- A:** Rosa, Ilaria and others, NA62 Collaboration: *Physics Beyond the Standard Model with the NA62 experiment at CERN*. *XVIII International Conference on Topics in Astroparticle and Underground Physics*. *Proceedings of Science TAUP2023* 040 (2024).
- A:** Ashraf, Muhammad Usman and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^0\pi\mu e$ decays*. *Phys. Lett. B* **859** 139122 (2024). CERN-EP-2024-224, [arXiv:2409.12981 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+\gamma\gamma$ decay*. *Phys. Lett. B* **850** 138513 (2024). CERN-EP-2023-247, [arXiv:2311.01837 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Leptonic Decays of Dark Photons at NA62*. *Phys. Rev. Lett.* **133** 111802 (2024). CERN-EP-2023-296, [arXiv:2312.12055 \[hep-ex\]](#).
- A:** Bethani, Agni and others, NA62 Collaboration: *Development of a new CEDAR for kaon identification at the NA62 experiment at CERN*. *JINST* **19** P05005 (2024). CERN-EP-2023-302, [arXiv:2312.17188 \[hep-ex\]](#).
- E:** Morisi, Stefano: *Heavy Neutral Lepton Search and $\mu \rightarrow e\gamma$ Constraints in Case of Type-I Seesaw*. *Symmetry* **16** 843 (2024). [arXiv:2403.00983 \[hep-ph\]](#).
- E:** Morandini, Alessandro and Ferber, Torben and Kahlhoefer, Felix: *Reconstructing axion-like particles from beam dumps with simulation-based inference*. *Eur. Phys. J. C* **84** 200 (2024). TTP23-031, P3H-23-054, [arXiv:2308.01353 \[hep-ph\]](#).
- A:** Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE*. *Workshop Italiano sulla Fisica Brad Alta Intensità*. *Proceedings of Science WIFAI2023* 027 (2024).
- E:** Kurbatov, E. O. and Ratnikov, F. D. and Ursov, E. D.: *Multidimensional Global Optimization of Detector Systems Using the Example of Muon Shield in the SHiP Experiment*. *Moscow Univ. Phys. Bull.* **79** S700–S705 (2024).
- E:** Kurbatov, E. O. and Ratnikov, F. D. and Ursov, E. D.: *The SHiP Experiment: the Problem of Multidimensional Muon Shielding Optimization*. *Phys. Part. Nucl.* **55** 990–994 (2024).
- A:** Kleimenova, Alina, GigaTracKer Working Group Collaboration: *Operation and performance of the NA62 GigaTracKer*. *The 32nd International Workshop on Vertex Detectors*. *Proceedings of Science VERTEX2023* 008 (2024).
- E:** Kim, Doojin and Yu, Jaehoon and Park, Jong-Chul and Kim, Hyunyong: *The Beam-Dump Ceiling and Its Experimental Implication: The Case of a Portable Experiment*. (2024). MI-HET-824, [arXiv:2401.09529 \[hep-ph\]](#).
- A:** Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN*. *International Conference on Particle Physics and Cosmology*. *Proceedings of Science ICPPCRubakov2023* 042 (2024).
- E:** Huang, Peisi and Zhang, Kairui: *Testable Flavored TeV-scale Resonant Leptogenesis with MeV-GeV Dark Matter in a Neutrinophilic 2HDM*. (2024). [arXiv:2411.18973 \[hep-ph\]](#).
- E:** Hou, Biao-Feng and Li, Xin-Qiang and Shen, Meng and Yang, Ya-Dong and Yuan, Xing-Bo: *Deciphering the Belle II data on $B \rightarrow K\nu\bar{\nu}$ decay in the (dark) SMEFT with minimal flavour violation*. *JHEP* **06** 172 (2024). [arXiv:2402.19208 \[hep-ph\]](#).

- E:** Hoid, Bai-Long and Hoferichter, Martin and de Elvira, Jacobo Ruiz: *Comparing phenomenological estimates of dilepton decays of pseudoscalar mesons with lattice QCD*. *The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023* 244 (2024). [arXiv:2312.00520 \[hep-lat\]](#).
- A:** Hives, Zdenko, NA62 Collaboration: *Precision Measurements and Prospects with Kaons at CERN*. *16th International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2023* 003 (2024).
- T:** Gan, Xucheng: *The Hidden Universe Odyssey: From Theoretical Foundations to Cosmological Detections*. (2024).
- T:** Frerick, Jonas: *Catching Dark Photons in the Sky: Looking for light vector particles using satellites*. [doi:10.3204/PUBDB-2024-06189](#) (2024). DESY-THESIS-2024-015.
- E:** Francesconi, M. and others: *Readout studies for the HIKE main electromagnetic calorimeter*. *Nucl. Instrum. Meth. A* 1067 169679 (2024).
- E:** Foroughi-Abari, Saeid and Reimitz, Peter and Ritz, Adam: *A Closer Look at Dark Vector Splitting Functions in Proton Bremsstrahlung*. (2024). [arXiv:2409.09123 \[hep-ph\]](#).
- E:** Foguel, Ana Luisa and Reimitz, Peter and Funchal, Renata Zukanovich: *Unlocking the Inelastic Dark Matter Window with Vector Mediators*. (2024). [arXiv:2410.00881 \[hep-ph\]](#).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* 47 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- A:** Fiorenza, Renato, NA48/2, NA62 Collaboration: *Precision measurements with Kaon decays at CERN*. *EPJ Web Conf.* 291 01003 (2024).
- E:** Dyks, Luke and others: *Beam loss studies for the P42 beamline at the CERN SPS north area*. *JACoW IPAC2024 TUPC73* (2024). CERN-PBC-CONF-2024-005.
- E:** Dyks, Luke and others: *Characterisation of the optics of the TT24 and P42 beamlines in the CERN SPS north area*. *JACoW IPAC2024 TUPC74* (2024). CERN-PBC-CONF-2024-004.
- A:** Duk, Viacheslav and Kirsanov, Mikhail, NA62, NA64 Collaboration: *Search for Dark Matter at NA62 and NA64 experiments*. *The Eleventh Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2023* 178 (2024).
- T:** Diaz Rodarte, Akbar Emmanuel: *Medición del tiempo de vida del K^+ en el experimento NA62*. (2024).
- T:** de Martino, Bianca: *Experimental proof of principle of the Neutrino Tagging at NA62*. (2024). CERN-THESIS-2023-423, tel-04632628.
- E:** Das, Arindam and Li, Jinmian and Mandal, Sanjoy and Nomura, Takaaki and Zhang, Rao: *Testing tree level TeV scale type-I and type-II seesaw scenarios in μ TRISTAN*. (2024). [arXiv:2410.21956 \[hep-ph\]](#).
- E:** Cirelli, Marco and Strumia, Alessandro and Zupan, Jure: *Dark Matter*. (2024). [arXiv:2406.01705 \[hep-ph\]](#).
- E:** Cesarotti, Cari and Gambhir, Rikab: *The new physics case for beam-dump experiments with accelerated muon beams*. *JHEP* 05 283 (2024). MIT-CTP 5606, [arXiv:2310.16110 \[hep-ph\]](#).
- A:** Boboc, P. C., NA62 Collaboration: *Recent Results from Precision Measurements at the NA62 Experiment*. *Ukr. J. Phys.* 69 781 (2024).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results from precision measurements at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 336 (2024).
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN*. *EPJ Web Conf.* 314 00003 (2024).
- E:** Bertelli, S. and others: *Characterization of the PADME positron beam for the X17 measurement*. (2024). [arXiv:2405.07203 \[hep-ex\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* 10 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Baratto-Roldán, Anna and Perrin-Terrin, Mathieu and Parozzi, Elisabetta Giulia and Jebramcik, Marc Andre and Charitonidis, Nikolaos: *NuTag: a proof-of-concept study for a long-baseline neutrino beam*. *Eur. Phys. J. C* 84 1024 (2024). [arXiv:2401.17068 \[physics.acc-ph\]](#).
- T:** Arrutia Sota, PA.: *Advanced RF techniques for CERN's future slow-extracted beams*. [doi:10.5287/ora-6ro94njbe](#) (2024).
- E:** Arrutia Sota, Pablo A. and Fraser, Matthew A. and Hagmann, Gregoire and Kain, Verena and Papotti, Giulia and Spierer, Arthur and Velotti, Francesco M. and Burrows, Philip N. and Piandani, Roberto: *Empty-bucket techniques for spill-quality improvement at the CERN Super Proton Synchrotron*. *Phys. Rev. Accel. Beams* 27 074001 (2024).
- T:** Arrutia Sota, Pablo: *Advanced RF techniques for CERN's future slow-extracted beams*. (2024).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* 84 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- A:** Antonelli, Antonella, NA62 Collaboration: *Recent results from NA62 experiment at CERN*. *The 10th International Workshop on Chiral Dynamics. Proceedings of Science CD2021* 050 (2024).

- E:** Altmannshofer, Wolfgang: *TASI 2022 lectures on flavor physics*. 2022 Theoretical Advanced Study Institute in Particle Theory. *Proceedings of Science TASI2022* 001 (2024).
- E:** Ai, Xiacong and others: *Flavor Physics at CEPC: a General Perspective*. (2024). [arXiv:2412.19743 \[hep-ex\]](#).
- E:** Acero, M. A. and others: *White paper on light sterile neutrino searches and related phenomenology*. *J. Phys. G* 51 120501 (2024). FERMLAB-PUB-22-318-ND-SCD-T, [arXiv:2203.07323 \[hep-ex\]](#).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62*. *JINST* 18 C12018 (2023).
- E:** Zelenov, A. and Bautin, V. and Bulanova, S. and Enik, T. and Kuznetsova, E. and Maleev, V. and Nasybulin, S. and Salamatin, K. and Sosnov, D. and Kamar, Y., SPD Collaboration: *Testbeam Measurements and Realistic Simulation for the SPD Straw Drift Tubes*. *Phys. Atom. Nucl.* 86 832–837 (2023).
- A:** Spadaro, Tommaso: *First results for searches of exotic decays with NA62 in beam dump mode*. *J. Phys. Conf. Ser.* 2446 012033 (2023).
- T:** Soldani, Mattia: *Innovative applications of strong crystalline field effects to particle accelerators and detectors*. (2023).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62*. 21st Conference on Flavor Physics and CP Violation. *Proceedings of Science FPCP2023* 018 (2023).
- E:** Rinella, G. Aglieri and others: *TDCpix pixel detector ASIC with 100 ps time stamping*. *Nucl. Instrum. Meth. A* 1053 168331 (2023).
- A:** Piccini, Mauro, NA62 Collaboration: *Measurement of the radiative decay $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ at the NA62 experiment*. *J. Phys. Conf. Ser.* 2446 012015 (2023).
- A:** Parkinson, Chris: *Precision Measurements with Kaons at CERN*. *Acta Phys. Polon. Supp.* 16 10 (2023).
- E:** Papotti, Giulia and Spierer, Arthur and Quartullo, Danilo and Haggmann, Gregoire and Karpov, Ivan and Piandani, Roberto: *SPS fixed target spill quality improvements in the longitudinal plane*. *JACoW IPAC2023 TUPA157* (2023).
- E:** Ovchinnikov, Maksym and Kryshchal, Viktor and Bondarenko, Kyrilo: *Sensitivity of the FACET experiment to Heavy Neutral Leptons and Dark Scalars*. *JHEP* 02 056 (2023). [arXiv:2209.14870 \[hep-ph\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Improved calorimetric particle identification in NA62 using machine learning techniques*. *JHEP* 11 138 (2023). CERN-EP-2023-066, [arXiv:2304.10580 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays into the $\pi^+ e^+ e^- e^+ e^-$ final state*. *Phys. Lett. B* 846 138193 (2023). CERN-EP-2023-133, [arXiv:2307.04579 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for dark photon decays to $\mu^+ \mu^-$ at NA62*. *JHEP* 09 035 (2023). CERN-EP-2023-032, [arXiv:2303.08666 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A study of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay*. *JHEP* 09 040 (2023). CERN-EP-2023-069, [arXiv:2304.12271 \[hep-ex\]](#).
- A:** Panichi, I. and others, NA62 Collaboration: *High level performance of the NA62 RICH detector*. *Nucl. Instrum. Meth. A* 1045 167583 (2023).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Performance of the NA62 trigger system*. *JHEP* 03 122 (2023). CERN-EP-2022-165, [arXiv:2208.00897 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *A search for the $K^+ \rightarrow \mu^- \nu e^+ e^+$ decay*. *Phys. Lett. B* 838 137679 (2023). CERN-EP-2022-243, [arXiv:2211.04818 \[hep-ex\]](#).
- E:** Moulson, Matthew, HIKE Collaboration: *HIKE: High Intensity Kaon Experiments at the CERN SPS*. *J. Phys. Conf. Ser.* 2446 012036 (2023). [arXiv:2212.00498 \[hep-ex\]](#).
- T:** Martínez Hernández, Alan Efraín: *Estudio de la dispersión kaón-electrón para la obtención del radio de carga eléctrico promedio del kaón*. (2023).
- E:** Marchevski, Radoslav: *First thought on a high-intensity KS experiment*. *J. Phys. Conf. Ser.* 2446 012035 (2023). [arXiv:2301.06801 \[hep-ex\]](#).
- A:** Lurkin, Nicolas, NA62, NA48/2 Collaboration: *Latest Results from Kaon Experiments at CERN*. *Acta Phys. Polon. Supp.* 16 8–A14 (2023).
- E:** Liu, Yu and Liu, Xuewen and Zhu, Bin: *Early kinetic decoupling effect on the forbidden dark matter annihilations into standard model particles*. *Phys. Rev. D* 107 115009 (2023). [arXiv:2301.12199 \[hep-ph\]](#).
- E:** Kling, Felix and Li, Shuailong and Song, Huayang and Su, Shufang and Su, Wei: *Light Scalars at FASER*. *JHEP* 08 001 (2023). [arXiv:2212.06186 \[hep-ph\]](#).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN*. *Phys. Atom. Nucl.* 86 1301–1309 (2023).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.
- A:** Jerhot, Jan, NA62 Collaboration: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment*. *J. Phys. Conf. Ser.* 2446 012022 (2023).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories*. *Rept. Prog. Phys.* 86 016201 (2023). FERMLAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).

- E:** Gligorov, V. V. and Rekočić, V.: *Review of real-time data processing for collider experiments.* *Eur. Phys. J. Plus* **138** 1005 (2023). [arXiv:2310.04756 \[hep-ex\]](#).
- T:** Garau, Michela: *Development of a new silicon pixel detector with 10 ps time resolution for high luminosity future experiments.* (2023).
- E:** Gan, Xucheng and Tsai, Yu-Dai: *Cosmic Millicharge Background and Reheating Probes.* (2023). UCI-HEP-TR-2023-05, FERMILAB-PUB-23-428-T-V, [arXiv:2308.07951 \[hep-ph\]](#).
- E:** Frumkin, Ronny and Hochberg, Yonit and Kuflik, Eric and Murayama, Hitoshi: *Thermal Dark Matter from Freeze-Out of Inverse Decays.* *Phys. Rev. Lett.* **130** 121001 (2023). [arXiv:2111.14857 \[hep-ph\]](#).
- E:** Franqueira Ximenes, Rui and others: *Target systems design for a high intensity facility in the CERN's ECN3 area.* *JACoW IPAC2023 WEPM112* (2023).
- E:** Fitzpatrick, Patrick J. and Hochberg, Yonit and Kuflik, Eric and Ovadia, Rotem and Soreq, Yotam: *Dark matter through the axion-gluon portal.* *Phys. Rev. D* **108** 075003 (2023). [arXiv:2306.03128 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC.* *J. Phys. G* **50** 030501 (2023). UCL-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Acerbi, F. and others, ENUBET Collaboration: *Design and performance of the ENUBET monitored neutrino beam.* *Eur. Phys. J. C* **83** 964 (2023). [arXiv:2308.09402 \[hep-ex\]](#).
- A:** Duk, V. and others: *Particle identification with the NA62 RICH detector.* *Nucl. Instrum. Meth. A* **1057** 168689 (2023).
- E:** Das, Arindam and Mandal, Sanjoy and Shil, Sujay: *Testing electroweak scale seesaw models at $e\text{-}\gamma$ and $\gamma\gamma$ colliders.* *Phys. Rev. D* **108** 015022 (2023). EPHOU-22-017, [arXiv:2304.06298 \[hep-ph\]](#).
- E:** Cintas, David: *New strategies to improve the sensitivity of the ANAIS-112 experiment at the Canfranc Underground Laboratory.* (2023). [arXiv:2310.07339 \[physics.ins-det\]](#).
- A:** Bremer, Johan and Bryman, Douglas and Danielsson, Hans and Falaleev, Valeri and Koettig, Torsten and Kurchaninov, Leonid and Liberadzka-Porret, Joanna and Onufrena, Aleksandra and Velghe, Bob: *NA62 liquid krypton purity monitor.* *Nucl. Instrum. Meth. A* **1057** 168764 (2023). [arXiv:2210.16232 \[physics.ins-det\]](#).
- A:** Bizzeti, Andrea: *Recent results from the NA62 and NA48/2 experiments at CERN.* *Nucl. Part. Phys. Proc.* **324-329** 113-118 (2023).
- E:** Bautin, V. and Salamatin, K. and Enik, T. and Minko, O. and Kambar, I.: *Online Gas Gain Monitoring System.* *Phys. Part. Nucl. Lett.* **20** 1240-1242 (2023).
- E:** Bautin, Vitalii and Demichev, Mikhail and Enik, Temur and Kuznetsova, Ekaterina and Maleev, Victor and Petti, Roberto and Nasybulin, Sergey and Salamatin, Kirill and Sosnov, Dmitry and Zelenov, Andrei: *VMM3 ASIC as a potential front end electronics solution for future Straw Trackers.* *Nucl. Instrum. Meth. A* **1047** 167864 (2023).
- E:** Batell, Brian and Huang, Wenjie and Kelly, Kevin J.: *Keeping it simple: simplified frameworks for long-lived particles at neutrino facilities.* *JHEP* **08** 092 (2023). CERN-TH-2023-030, [arXiv:2304.11189 \[hep-ph\]](#).
- E:** Araki, Takeshi and Asai, Kento and Iizawa, Tomoya and Otono, Hidetoshi and Shimomura, Takashi and Takubo, Yosuke: *New constraint on dark photon at T2K off-axis near detector.* *JHEP* **11** 056 (2023). UME-PP-026, KYUSHU-HET-262, [arXiv:2308.01565 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report.* *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- A:** Ammendola, R. and others: *The NA62 level 0 calorimetric trigger fast readout implementation, commissioning and data taking performances.* *JINST* **18** C02049 (2023).
- E:** Alves, Daniele S. M. and others: *Shedding light on X17: community report.* *Eur. Phys. J. C* **83** 230 (2023).
- E:** Alonso-Álvarez, Gonzalo and Cline, James M. and Xiao, Tianzhuo: *The flavor of QCD axion dark matter.* *JHEP* **07** 187 (2023). [arXiv:2305.00018 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3.* (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Afik, Yoav and Döbrich, Babette and Jerhot, Jan and Soreq, Yotam and Tobioka, Kohsaku: *Probing long-lived axions at the KOTO experiment.* *Phys. Rev. D* **108** 055007 (2023). IRMP-CP3-23-11, IRMP-CP3-23-10, MPP-2023-40, KEK-TH-2499, [arXiv:2303.01521 \[hep-ph\]](#).
- E:** Abdullahi, Asli M. and others: *The present and future status of heavy neutral leptons.* *J. Phys. G* **50** 020501 (2023). FERMILAB-CONF-22-184-T-V, [arXiv:2203.08039 \[hep-ph\]](#).
- A:** Zamkovsky, Michal: *Measurement of the Very Rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay.* *Moscow Univ. Phys. Bull.* **77** 276-279 (2022).
- E:** Yang, Kwei-Chou: *Freeze-out forbidden dark matter in the hidden sector in the mass range from sub-GeV to TeV.* *JHEP* **11** 083 (2022). CYCU-HEP-22-08, [arXiv:2209.10827 \[hep-ph\]](#).
- E:** Touns, M. and others: *PIP2-BD: GeV Proton Beam Dump at Fermilab's PIP-II Linac.* (2022). FERMILAB-FN-1152-AD-ND, LA-UR-22-21987, [arXiv:2203.08079 \[hep-ex\]](#).
- T:** Thormählen, Lennert Jarl: *Linking QCD axion models to their low-energy phenomenology.* (2022).
- T:** Segura Rosales, Mariana del Rocío: *Estudio para determinar el tiempo de vida del K^+ .* (2022).

- T: Schulthess, Ivo: *Search for Axion-Like Dark Matter and Exotic Yukawa-Like Interaction*. doi:10.48549/4103 (2022).
- T: Scherb, Christiane: *Searching for new (dark and colourful) sectors at colliders and beyond*. doi:10.25358/openscience-7958 (2022).
- T: Rodríguez Rivera, Kevin Alexander: *Producción de K^{*0} en el Experimento CERN-NA62*. (2022).
- E: Rella, Claudia and Döbrich, Babette and Yu, Tien-Tien: *Searching for muonphilic dark sectors with proton beams*. *Phys. Rev. D* 106 035023 (2022). arXiv:2205.09870 [hep-ph].
- E: Perrin-Terrin, Mathieu: *Neutrino tagging: a new tool for accelerator based neutrino experiments*. *Eur. Phys. J. C* 82 465 (2022). arXiv:2112.12848 [hep-ex].
- E: Pellico, William and Bhat, Chandra and Eldred, Jeffrey and Johnstone, Carol and Johnstone, John and Seiya, Kiyomi and Tan, Cheng-Yang and Touns, Matthew and deNiverville, Patrick and Van De Water, Richard: *FNAL PIP-II Accumulator Ring*. (2022). FERMILAB-CONF-22-136-AD-ND, arXiv:2203.07339 [physics.acc-ph].
- A: Parkinson, C.: *New measurement of the $K^+ B\Gamma^+ s \rightarrow B\Gamma^+ s \pi^+ \mu^+ \mu^-$ decay at NA62*. *Nucl. Part. Phys. Proc.* 318-323 155–159 (2022).
- A: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). arXiv:2204.13394 [hep-ex].
- A: Minucci, Elisa and others, NA62 Collaboration: *Searches for lepton flavour and number violation in K^+ and π^0 decays at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021* 525 (2022).
- A: Fiorenza, Renato and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN*. *The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021* 176 (2022).
- A: Volpe, Roberta and others, NA62 Collaboration: *Search for K^+ decays to a lepton and invisible particles*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 056 (2022).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating $K^+ \rightarrow \pi^- (\pi^0) e^+ e^+$ decays*. *Phys. Lett. B* 830 137172 (2022). CERN-EP-2022-018, arXiv:2202.00331 [hep-ex].
- A: Swallow, Joel Christopher and others, NA62 Collaboration: *Searches for lepton flavour/number violation in K^+ and π^0 decays at the NA62 experiment*. *The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021* 130 (2022).
- A: Jerhot, Jan and others, NA62 Collaboration: *NA62 results on Dark Sector searches*. *Frascati Phys. Ser.* 74 269–284 (2022).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *A measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay*. *JHEP* 11 011 (2022). [Addendum: *JHEP* 06, 040 (2023)] CERN-EP-2022-189, arXiv:2209.05076 [hep-ex].
- A: Parkinson, Chris John and others, NA62 Collaboration: *Search for heavy neutral lepton production at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021* 686 (2022).
- A: Volpe, Roberta and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. *Particles and Nuclei International Conference 2021. Proceedings of Science PANIC2021* 426 (2022).
- A: Koval, Michal and others, NA62 Collaboration: *New measurement of the radiative decay $Ke3\gamma$ at the NA62 experiment at CERN*. *Particles and Nuclei International Conference 2021. Proceedings of Science PANIC2021* 427 (2022).
- A: Zamkovský, Michal and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 070 (2022).
- A: Kholodenko, Sergei and others, NA62 Collaboration: *Search for lepton number and flavour violation in K^+ and π^0 decays*. *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 066 (2022).
- A: Biino, Cristina and others, NA62 Collaboration: *New measurement of radiative decays at the NA62 Experiment at CERN: $Ke3\gamma$* . *7th Symposium on Prospects in the Physics of Discrete Symmetries, DISCRETE 2020-2021. Proceedings of Science DISCRETE2020-2021* 055 (2022).
- A: Brizioli, Francesco and others, NA62 Collaboration: *Preliminary results of the $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ decay study at the NA62 experiment*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2021* 553 (2022).
- A: Lurkin, Nicolas and others, NA62 Collaboration: *Search for K^+ decays to a lepton and invisible particles*. *The 22nd International Workshop on Neutrinos from Accelerators. Proceedings of Science NuFact2021* 157 (2022).
- T: Moreno Hernández, Ana Isabel: *Producción de Λ^0 (1115) y $\bar{\Lambda}^0$ (1115) en CERN-NA62*. (2022).
- E: Moghaddam, Zahra Ghorbani, DUNE Collaboration: *Sensitivity to Heavy Neutral Leptons with the SAND detector at the DUNE ND complex*. (2022). arXiv:2209.01899 [hep-ex].
- A: Minucci, Elisa, NA62 Collaboration: *First results for searches of exotic decays with NA62 in beam-dump mode*. *41st International Conference on High Energy physics. Proceedings of Science ICHEP2022* 160 (2022).

- A:** Minucci, Elisa, NA62 Collaboration: *Searches for Lepton Flavour and Lepton Number violation in K^+ decays.* [Nucl. Part. Phys. Proc. 318-323 165–169](#) (2022).
- A:** Madigozhin, D., NA62 Collaboration: *New measurement of the $K^+ \rightarrow \pi^+\mu^+\mu^-$ decay.* [Int. J. Mod. Phys. A 37 2240001](#) (2022).
- E:** Liberadzka-Porret, J. and Koettig, T. and Santandrea, D. and Kribov, R. and Velghe, B. and Bryman, D. and Falaleev, V. and Danielsson, H. and Bremer, J.: *Small scale time projection chamber setup to test the purity of liquid krypton from the NA62 experiment at CERN.* [IOP Conf. Ser. Mater. Sci. Eng. 1240 012046](#) (2022).
- E:** Akiba, Kazu and others, LHCb VELO group Collaboration: *Considerations for the VELO detector at the LHCb Upgrade II.* (2022). LHCb-PUB-2022-001, CERN-LHCb-PUB-2022-001.
- T:** Lari, Enrico: *Measurements of the neutral meson Dalitz decay with application of Deep Learning techniques.* (2022).
- A:** Lari, Enrico: *Measurements of the $\pi^0 \rightarrow e^+e^-\gamma$ decay with application of Deep Learning techniques.* (2022). CERN-THESIS-2022-276.
- E:** Klose, Philipp: *Factorizing hidden particle production rates.* [JHEP 08 265](#) (2022). [arXiv:2203.02229 \[hep-ph\]](#).
- E:** Jerhot, Jan and Döbrich, Babette and Ertas, Fatih and Kahlhoefer, Felix and Spadaro, Tommaso: *ALPINIST: Axion-Like Particles In Numerous Interactions Simulated and Tabulated.* [JHEP 07 094](#) (2022). TTK-22-04, CP3-22-02, [arXiv:2201.05170 \[hep-ph\]](#).
- E:** Ishikawa, Akimasa and Sakaki, Yasuhito and Takubo, Yosuke: *Search for axion-like particles with electron and positron beams at the KEK linac.* [PTEP 2022 113B05](#) (2022). [arXiv:2107.06431 \[hep-ph\]](#).
- E:** Ilten, Philip and others: *Experiments and Facilities for Accelerator-Based Dark Sector Searches.* (2022). FERMILAB-CONF-22-463-ND-SCD, [arXiv:2206.04220 \[hep-ex\]](#).
- E:** Aryshev, Alexander and others, ILC International Development Team Collaboration: *The International Linear Collider: Report to Snowmass 2021.* (2022). DESY-22-045, IFT-UAM/CSIC-22-028, KEK Preprint 2021-61, IFT-UAM/CSIC-22-028, KEK Preprint 2021-61, PNNL-SA-160884, SLAC-PUB-17662, FERMILAB-FN-1171-PPD-QIS-SCD-TD, PNNL-SA-160884, [arXiv:2203.07622 \[physics.acc-ph\]](#).
- E:** Husek, Tomáš: *Standard Model estimate of $K^+ \rightarrow \pi^+ 4e$ branching ratio.* [Phys. Rev. D 106 L071301](#) (2022). LU TP 22-46, [arXiv:2207.02234 \[hep-ph\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent.* (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Harigaya, Keisuke and Wang, Isaac R.: *First-Order Electroweak Phase Transition and Baryogenesis from a Naturally Light Singlet Scalar.* (2022). CERN-TH-2022-107, [arXiv:2207.02867 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks.* (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- T:** Goodwin, Owen: *Search for Higgs Portal Scalars and Heavy Neutral Leptons Decaying in the MicroBooNE Detector.* (2022). [FERMILAB-THESIS-2022-05](#).
- T:** El Jarrari, Hassnae: *Dark Photon Searches from Higgs Boson and Heavy Boson Decays Using pp Collisions Recorded at 13 TeV with the ATLAS Detector at the LHC and Performance Evaluation of the Low Gain Avalanche Detectors for the HL-LHC ATLAS High-Granularity Timing Detector.* (2022). CERN-THESIS-2022-339.
- A:** Duk, Viacheslav: *Searches for lepton flavour and lepton number violating K^+ decays at the NA62 experiment.* [41st International Conference on High Energy physics. Proceedings of Science ICHEP2022 705](#) (2022).
- E:** Di Luzio, Luca and Mescia, Federico and Nardi, Enrico and Okawa, Shohei: *Renormalization group effects in astrophobic axion models.* [Phys. Rev. D 106 055016](#) (2022). [arXiv:2205.15326 \[hep-ph\]](#).
- A:** Dias, Kereibay: *Search for Heavy Neutral Lepton Production in NA62#.* [Moscow Univ. Phys. Bull. 77 220–222](#) (2022).
- A:** Corvino, Michele, NA48/2, NA62 Collaboration: *Latest results from NA62 and NA48/2 experiments.* [EPJ Web Conf. 270 00008](#) (2022).
- A:** Corvino, M.: *Search for heavy neutral lepton production at the NA62 experiment.* [Nucl. Part. Phys. Proc. 318-323 173–177](#) (2022).
- E:** Cerci, S. and others: *FACET: A new long-lived particle detector in the very forward region of the CMS experiment.* [JHEP 06 110](#) (2022). [arXiv:2201.00019 \[hep-ex\]](#).
- T:** Calefice, Lukas: *Standalone track reconstruction on GPUs in the first stage of the upgraded LHCb trigger system & Preparations for measurements with strange hadrons in Run 3.* [doi:10.17877/DE290R-23149](#) (2022).
- T:** Briano Olvera, Alejandro: *Búsqueda de Producción de Neutrinos Pesados en Decaimientos de Píon a Positrón.* (2022).
- E:** Billard, Julien and others: *Direct detection of dark matter—APPEC committee report*.* [Rept. Prog. Phys. 85 056201](#) (2022). [arXiv:2104.07634 \[hep-ex\]](#).
- A:** Bician, Lubos: *Search for Lepton Number and Flavour Violation in K^+ and π^0 Decays.* [Nucl. Part. Phys. Proc. 318-323 170–172](#) (2022).
- E:** Bauer, Martin and Neubert, Matthias and Renner, Sophie and Schnubel, Marvin and Thamm, Andrea: *Flavor probes of axion-like particles.* [JHEP 09 056](#) (2022). MITP/21-025, CERN-TH-2021-148, IPPP/21/37, [arXiv:2110.10698 \[hep-ph\]](#).

- T:** Bache, Thomas: *Branching ratio measurement of the neutral pion Dalitz decay at NA62*. (2022). CERN-THESIS-2022-272.
- T:** Ammendola, Roberto: *A Multi-FPGA High Performance Computing System for 3D FFT-based Numerical Simulations*. (2022). [arXiv:2209.02314](https://arxiv.org/abs/2209.02314) [cs.DC].
- E:** Wu, Shuoxing and Lenardo, Brian and Gratta, Giorgio: *Measurement of the ionization yield of neutron-induced proton recoils in Tetramethylsilane*. *JINST* **16** P07053 (2021). [arXiv:2104.04684](https://arxiv.org/abs/2104.04684) [hep-ex].
- E:** Tsai, Yu-Dai and deNiverville, Patrick and Liu, Ming Xiong: *Dark Photon and Muon $g - 2$ Inspired Inelastic Dark Matter Models at the High-Energy Intensity Frontier*. *Phys. Rev. Lett.* **126** 181801 (2021). FERMILAB-PUB-19-393-A-PPD, [arXiv:1908.07525](https://arxiv.org/abs/1908.07525) [hep-ph].
- T:** Tastet, Jean-Loup: *Searching for Heavy Neutral Leptons at CERN*. (2021).
- E:** Tastet, Jean-Loup and Goudzovski, Evgueni and Timiryasov, Inar and Ruchayskiy, Oleg: *Projected NA62 sensitivity to heavy neutral lepton production in $K^+ \rightarrow \pi^0 e^+ N$ decays*. *Phys. Rev. D* **104** 055005 (2021). [arXiv:2008.11654](https://arxiv.org/abs/2008.11654) [hep-ph].
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- A:** Swallow, Joel, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays at NA62*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* **430** (2021). [arXiv:2010.14475](https://arxiv.org/abs/2010.14475) [hep-ex].
- E:** Sumensari, Olycr: *Lepton Flavor Violation and Dilepton Tails at the LHC*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* **428** (2021).
- A:** Ruggiero, Giuseppe: *Rare decays of K mesons*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* **036** (2021).
- T:** Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](https://doi.org/10.25358/openscience-5911) (2021).
- T:** Ovchinnikov, M.: *Searches for new physics in the laboratory and in space*. (2021).
- E:** Oliveira, C. P. and Hadjimichef, D. and Machado, M. V. T.: *Production of the axion-like particles on electron–nucleus and ultraperipheral heavy ion collisions*. *J. Phys. G* **48** 085005 (2021).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for Lepton Number and Flavor Violation in K^+ and π^0 Decays*. *Phys. Rev. Lett.* **127** 131802 (2021). CERN-EP-2021-090, [arXiv:2105.06759](https://arxiv.org/abs/2105.06759) [hep-ex].
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay*. *JHEP* **06** 093 (2021). [arXiv:2103.15389](https://arxiv.org/abs/2103.15389) [hep-ex].
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for K^+ decays to a muon and invisible particles*. *Phys. Lett. B* **816** 136259 (2021). CERN-EP-2021-018, [arXiv:2101.12304](https://arxiv.org/abs/2101.12304) [hep-ex].
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for a feebly interacting particle X in the decay $K^+ \rightarrow \pi^+ X$* . *JHEP* **03** 058 (2021). CERN-EP-2020-227, [arXiv:2011.11329](https://arxiv.org/abs/2011.11329) [hep-ex].
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for π^0 decays to invisible particles*. *JHEP* **02** 201 (2021). CERN-EP-2020-193, [arXiv:2010.07644](https://arxiv.org/abs/2010.07644) [hep-ex].
- A:** Minucci, Elisa, NA62 Collaboration: *Recent results from the NA62 experiment*. *19th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2020* **058** (2021).
- E:** Mies, Hanna and Scherb, Christiane and Schwaller, Pedro: *Collider constraints on dark mediators*. *JHEP* **04** 049 (2021). MITP/20-068,P3H-20-069,TTK-20-41, [arXiv:2011.13990](https://arxiv.org/abs/2011.13990) [hep-ph].
- A:** Marchevski, Radoslav, NA62 Collaboration: *New result on the search for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* **398** (2021).
- A:** Lollini, Riccardo, NA62 Collaboration: *The $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay and New Physics Searches at NA62*. *Acta Phys. Polon. Supp.* **14** 41 (2021).
- T:** Leedom, Jacob Michael: *Topics in Axions, Supergravity, and the String Swampland*. (2021).
- E:** Lanfranchi, Gaia and Pospelov, Maxim and Schuster, Philip: *The Search for Feebly Interacting Particles*. *Ann. Rev. Nucl. Part. Sci.* **71** 279–313 (2021). [arXiv:2011.02157](https://arxiv.org/abs/2011.02157) [hep-ph].
- A:** Koval, Michal, NA62 Collaboration: *Kaon Physics in Europe*. *JPS Conf. Proc.* **33** 011106-1–011106-7 (2021).
- T:** Kholodenko, Sergey: *Система Сцинтилляционных Годоскопов Эксперимента Na62*. (2021). CERN-THESIS-2021-329.
- T:** Ghosh, Sumit: *Exploring the invisible Universe by Model building: Neutrinos and other Dark Matters*. (2021).
- A:** Ghinescu, Stefan and Döbrich, Babette and Minucci, Elisa and Spadaro, Tommaso: *A biased MC for muon production for beam-dump experiments*. *Eur. Phys. J. C* **81** 767 (2021). [arXiv:2106.01932](https://arxiv.org/abs/2106.01932) [hep-ex].
- T:** Ertas, Fatih: *Phenomenology of light pseudoscalar particles*. [doi:10.18154/RWTH-2021-09397](https://doi.org/10.18154/RWTH-2021-09397) (2021).
- T:** Einhaus, Ulrich: *Entwicklung einer hochgranularen Auslese für eine Zeitprojektionskammer und ihre Vorteile im Rahmen von Teilchenidentifikation*. (2021).
- A:** Duk, V., NA62 Collaboration: *Rare decays from NA62*. *Il Nuovo Cimento C* **44** 176 (2021).

- E:** D’Alessandro, Gian Luigi and others: *Studies for the K12 High-Intensity Kaon Beam at CERN*. *JACoW IPAC2021* 3049–3052 (2021).
- E:** D’Agnolo, Raffaele Tito and Liu, Di and Ruderman, Joshua T. and Wang, Po-Jen: *Forbidden dark matter annihilations into Standard Model particles*. *JHEP* 06 103 (2021). [arXiv:2012.11766 \[hep-ph\]](#).
- E:** Ceccucci, Augusto: *Rare Kaon Decays*. *Ann. Rev. Nucl. Part. Sci.* 71 113–137 (2021).
- E:** Carmona, Adrian and Scherb, Christiane and Schwaller, Pedro: *Charming ALPs*. *JHEP* 08 121 (2021). MITP-21-003, [arXiv:2101.07803 \[hep-ph\]](#).
- A:** Bician, Lubos: *New measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay at NA62*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 364 (2021).
- E:** Baldini, W. and others: *SHADOWS (Search for Hidden And Dark Objects With the SPS)*. (2021). [arXiv:2110.08025 \[hep-ex\]](#).
- E:** Aristizabal Sierra, D. and De Romeri, V. and Flores, L. J. and Papoulias, D. K.: *Axionlike particles searches in reactor experiments*. *JHEP* 03 294 (2021). [arXiv:2010.15712 \[hep-ph\]](#).
- E:** Arina, Chiara and Hajer, Jan and Klose, Philipp: *Portal Effective Theories. A framework for the model independent description of light hidden sector interactions*. *JHEP* 09 063 (2021). [arXiv:2105.06477 \[hep-ph\]](#).
- E:** Alves, Daniele S. M.: *Signals of the QCD axion with mass of 17 MeV/c²: Nuclear transitions and light meson decays*. *Phys. Rev. D* 103 055018 (2021). LA-UR-20-27039, [arXiv:2009.05578 \[hep-ph\]](#).
- E:** Alonso-Álvarez, Gonzalo and Ertas, Fatih and Jaeckel, Joerg and Kahlhoefer, Felix and Thormaehlen, Lennert J.: *Leading logs in QCD axion effective field theory*. *JHEP* 07 059 (2021). TTK-21-02, [arXiv:2101.03173 \[hep-ph\]](#).
- E:** Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* 81 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- E:** Abdullahi, Asli and Hostert, Matheus and Pascoli, Silvia: *A dark seesaw solution to low energy anomalies: Mini-BooNE, the muon ($g\bar{I}s - b\bar{I}s2$), and BaBar*. *Phys. Lett. B* 820 136531 (2021). FTPI-MINN-20-25, IPPP/20/32, FTPI-MINN-20-25, IPPP/20/32, [arXiv:2007.11813 \[hep-ph\]](#).
- T:** Zamkovský, Michal: *Study of the extremely rare decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ with the NA62 experiment at CERN*. (2020).
- A:** Volpe, R. and others: *The role of the NA62 RICH in the $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ measurement*. *Nucl. Instrum. Meth. A* 952 161802 (2020).
- A:** Turisini, M., NA62 Collaboration: *Design, performance and perspective of the NA62-RICH*. *JINST* 15 C09013 (2020).
- T:** Trilov, Stoyan Miroslavov: *Measurement of the branching fractions of semileptonic K^+ decays at the NA62 experiment*. (2020).
- E:** Tastet, Jean-Loup and Timiryasov, Inar: *Dirac vs. Majorana HNLs (and their oscillations) at SHIP*. *JHEP* 04 005 (2020). [arXiv:1912.05520 \[hep-ph\]](#).
- E:** Su, Jih-Ying and Tandean, Jusak: *Seeking massless dark photons in the decays of charmed hadrons*. *Phys. Rev. D* 102 115029 (2020). NCTS-PH/2006, [arXiv:2005.05297 \[hep-ph\]](#).
- E:** Su, Jih-Ying and Tandean, Jusak: *Kaon decays shedding light on massless dark photons*. *Eur. Phys. J. C* 80 824 (2020). NCTS-PH/2008, [arXiv:2006.05985 \[hep-ph\]](#).
- T:** Sterenberg Frankenthal, Andre: *Search for dark matter decaying to two displaced muons produced in proton-proton collisions at 13 TeV with the CMS detector, and for dark photons produced in electron-positron fixed-target collisions at 500 MeV with the PADME detector*. doi:10.7298/8trf-xg77 (2020). FERMILAB-THESIS-2020-28 .
- A:** Spadaro, T., NA62 Collaboration: *Search for invisible dark photon at NA62*. *J. Phys. Conf. Ser.* 1526 012030 (2020).
- A:** Ruggiero, G.: *New Result on $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ from the NA62 Experiment*. *J. Phys. Conf. Ser.* 1526 012003 (2020).
- E:** Romano, Angela, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays*. *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* 222 (2020).
- T:** Ramos Pernas, Miguel: *Search for $K_s^0 \rightarrow \mu^+ \mu^-$ and trigger developments at LHCb*. (2020). CERN-THESIS-2020-101.
- T:** Ramos Pernas, Miguel: *Search for $K_s^0 \rightarrow \mu^+ \mu^-$ and trigger developments at LHCb*. (2020).
- A:** Piccini, M., NA62 Collaboration: *Status of the NA62 Experiment*. *EPJ Web Conf.* 234 01012 (2020).
- A:** Piandani, R., NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$ with NA62: 2016 results and prospects*. *Nuovo Cim. C* 42 253 (2020).
- A:** Pepe, Monica, A62 Collaboration: *Performance of the NA62 ring imaging Cherenkov detector*. *Nucl. Instrum. Meth. A* 958 162026 (2020).
- A:** Parenti, A., NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$ measurement at the NA62 experiment*. *Nuovo Cim. C* 43 51 (2020).
- A:** NA62 Collaboration, KLEVER Collaboration, NA62, KLEVER Collaboration: *Rare decays at the CERN high-intensity kaon beam facility*. (2020). [arXiv:2009.10941 \[hep-ex\]](#).
- A:** Baeva, Aigul and others, NA62 Collaboration: *Searches for lepton flavour and lepton number violation in K^+ decays*. *The 21st international workshop on neutrinos from accelerators. Proceedings of Science NuFact2019* 077 (2020).

- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays to positrons.* *Phys. Lett. B* 807 135599 (2020). CERN-EP-2020-089, [arXiv:2005.09575 \[hep-ex\]](#).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *An investigation of the very rare $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay.* *JHEP* 11 042 (2020). CERN-EP-2020-132, [arXiv:2007.08218 \[hep-ex\]](#).
- E:** Montbarbon, E. and others: *Studies of the conventional beams working group within the physics beyond colliders framework at CERN.* *Nucl. Instrum. Meth. B* 464 1–4 (2020).
- A:** Minucci, Elisa, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62.* *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* 571 (2020).
- A:** Martellotti, Silvia, NA62 Collaboration: *$K^+ \rightarrow \pi^+\nu\bar{\nu}$ Decay and NP Searches at NA62.* *Acta Phys. Polon. Supp.* 13 95–102 (2020).
- E:** Mapelli, Alessandro: *Microfabricated silicon substrates for pixel detectors assembly and thermal management a.k.a. Silicon Microchannel Cooling Plates.* *Nucl. Instrum. Meth. A* 958 162142 (2020).
- E:** Lurkin, Nicolas, NA62 Collaboration: *Latest results from the NA62 experiment at CERN.* *ALPS 2019 An Alpine LHC Physics Summit. Proceedings of Science ALPS2019* 037 (2020). [arXiv:1907.12955 \[hep-ex\]](#).
- E:** Liu, Xuewen and Li, Ying and Li, Tianjun and Zhu, Bin: *The light sgoldstino phenomenology: explanations for the muon (g_2) deviation and KOTO anomaly.* *JHEP* 10 197 (2020). [arXiv:2006.08869 \[hep-ph\]](#).
- E:** Lichard, Peter: *Pionium as a source of false events in the $K \rightarrow \pi\nu\bar{\nu}$ decays.* *Phys. Rev. D* 102 113005 (2020). [arXiv:2006.02969 \[hep-ph\]](#).
- A:** Lenti, M.: *Final performances of the NA62 RICH detector.* *JINST* 15 C03027 (2020).
- E:** Lanfranchi, G.: *Feebly-interacting particles: experimental landscape.* *J. Phys. Conf. Ser.* 1526 012029 (2020).
- A:** Kucerova, Z., NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+\nu\bar{\nu}$ at CERN.* *J. Phys. Conf. Ser.* 1586 012002 (2020).
- A:** Kucerova, Zuzana, NA62 Collaboration: *Recent results in kaon physics.* *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* 028 (2020).
- E:** Krnjaic, Gordan and Marques-Tavares, Gustavo and Redigolo, Diego and Tobioka, Kohsaku: *Probing Muonphilic Force Carriers and Dark Matter at Kaon Factories.* *Phys. Rev. Lett.* 124 041802 (2020). FERMILAB-PUB-18-665-A, KEK-TH-2105, [arXiv:1902.07715 \[hep-ph\]](#).
- T:** Klein, Christoph Thomas: *Investigation of performance and the influence of environmental conditions on strip detectors for the ATLAS Inner Tracker Upgrade.* [doi:10.17863/CAM.45814](#) (2020).
- A:** Kleimenova, Alina and others: *The Gigatracker of the NA62 experiment at CERN.* *European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2019* 106 (2020).
- T:** Iacobuzio, Lorenza: *Heavy neutral lepton decay searches at the NA62 experiment at CERN.* (2020).
- E:** Harigaya, Keisuke and Leedom, Jacob M.: *QCD Axion Dark Matter from a Late Time Phase Transition.* *JHEP* 06 034 (2020). [arXiv:1910.04163 \[hep-ph\]](#).
- A:** Federici, L. and others: *The Gigatracker, the silicon beam tracker for the NA62 experiment at CERN.* *Nucl. Instrum. Meth. A* 958 162127 (2020).
- E:** Fabbrichesi, Marco and Gabrielli, Emidio and Lanfranchi, Gaia: *The Dark Photon.* [doi:10.1007/978-3-030-62519-1](#) (2020). [arXiv:2005.01515 \[hep-ph\]](#).
- E:** Ertas, Fatih and Kahlhoefer, Felix: *On the interplay between astrophysical and laboratory probes of MeV-scale axion-like particles.* *JHEP* 07 050 (2020). TTK-20-08, [arXiv:2004.01193 \[hep-ph\]](#).
- E:** Dutta, Bhaskar and Ghosh, Sumit and Li, Tianjun: *Explaining $(g-2)_{\mu,e}$, the KOTO anomaly and the Mini-BooNE excess in an extended Higgs model with sterile neutrinos.* *Phys. Rev. D* 102 055017 (2020). MI-TH-2012, [arXiv:2006.01319 \[hep-ph\]](#).
- A:** Duk, V., NA62 Collaboration: *Searches for lepton flavor and lepton number violation in K^+ decays with NA62.* *J. Phys. Conf. Ser.* 1526 012014 (2020).
- E:** Darmé, Luc and Ellis, Sebastian A. R. and You, Tevong: *Light Dark Sectors through the Fermion Portal.* *JHEP* 07 053 (2020). CERN-TH-2020-002, CERN-TH-2020-003, [arXiv:2001.01490 \[hep-ph\]](#).
- A:** Danielsson, H. and Gavrishchuk, O. and Giudici, P. A. and Goudzovski, E. and Kholodenko, S. and Kholodenko, M. and Mannelli, I. and Obratsov, V. and Sugonyaev, V. and Wanke, R.: *New veto hodoscope ANTI-0 for the NA62 experiment at CERN.* *JINST* 15 C07007 (2020). [arXiv:2004.09344 \[physics.ins-det\]](#).
- T:** Dal Bello, Riccardo: *Nuclear prompt gamma spectroscopy for range verification in ion-beam therapy.* [doi:10.11588/heidok.00027869](#) (2020).
- E:** Aielli, Giulio and others, CODEX-b Collaboration: *Expression of interest for the CODEX-b detector.* *Eur. Phys. J. C* 80 1177 (2020). [arXiv:1911.00481 \[hep-ex\]](#).
- A:** Cenci, P. and others: *Status of the NA62 ring imaging Cherenkov detector.* *Nucl. Instrum. Meth. A* 952 162005 (2020).
- E:** Ceccucci, Augusto and Lazzeroni, Cristina: *Rare kaon decays.* *Comptes Rendus Physique* 21 107–119 (2020).
- A:** Brizioli, F. and Lollini, R., NA62 Collaboration: *The RICH detector of the NA62 experiment.* *J. Phys. Conf. Ser.* 1526 012033 (2020).
- T:** Boschi, Tommaso: *New Physics and New Technologies in Next-Generation Neutrino Experiments.* (2020).

- A:** Boretto, M., NA62 Collaboration: *Prototyping of the trigger-matching software for the NA62 data acquisition upgrade*. [JINST 15 C06049](#) (2020).
- E:** Bondarenko, Kyrylo and Boyarsky, Alexey and Bringmann, Torsten and Hufnagel, Marco and Schmidt-Hoberg, Kai and Sokolenko, Anastasia: *Direct detection and complementary constraints for sub-GeV dark matter*. [JHEP 03 118](#) (2020). DESY-19-140, [arXiv:1909.08632 \[hep-ph\]](#).
- E:** Ballett, Peter and Hostert, Matheus and Pascoli, Silvia: *Dark Neutrinos and a Three Portal Connection to the Standard Model*. [Phys. Rev. D 101 115025](#) (2020). IPPP/19/19/FTPI-MINN-20-17, IPPP/19/19, [arXiv:1903.07589 \[hep-ph\]](#).
- E:** Ballett, Peter and Boschi, Tommaso and Pascoli, Silvia: *Heavy Neutral Leptons from low-scale seesaws at the DUNE Near Detector*. [JHEP 03 111](#) (2020). IPPP/18/76, [arXiv:1905.00284 \[hep-ph\]](#).
- A:** Anzivino, G. and others: *NA62 RICH performance: measurement and optimization*. [Nucl. Instrum. Meth. A 952 161736](#) (2020).
- A:** Anzivino, G. and others: *Light Detection System and Time Resolution of the NA62 RICH*. [JINST 15 P10025](#) (2020). [arXiv:2009.07581 \[physics.ins-det\]](#).
- E:** Angelescu, Andrei and Faroughy, Darius A. and Sumensari, Olcyr: *Lepton Flavor Violation and Dilepton Tails at the LHC*. [Eur. Phys. J. C 80 641](#) (2020). ZU-TH 02/20, [arXiv:2002.05684 \[hep-ph\]](#).
- E:** Alimena, Juliette and others: *Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider*. [J. Phys. G 47 090501](#) (2020). [arXiv:1903.04497 \[hep-ex\]](#).
- T:** Zarebski, Kristian: *Analysis into the decays of $K^\pm \rightarrow \pi^\pm \mu^+ \mu^-$ and $B_c^\pm \rightarrow \phi K^\pm$ at LHCb*. (2019).
- A:** Zamkovsky, M., NA62 Collaboration: *Rare strange particle decays*. (2019). [arXiv:1906.08567 \[hep-ex\]](#).
- A:** Zamkovsky, Michal, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. [The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018 188](#) (2019).
- E:** Winkler, Martin Wolfgang: *Decay and detection of a light scalar boson mixing with the Higgs boson*. [Phys. Rev. D 99 015018](#) (2019). NORDITA-2018-087, [arXiv:1809.01876 \[hep-ph\]](#).
- T:** Wang, Zeren Simon: *Confronting the R-parity-violating MSSM with Flavor Observables and Displaced Vertices*. (2019).
- A:** Volpe, Roberta: *Search for exotic decays at NA62*. (2019). [arXiv:1910.10429 \[hep-ex\]](#).
- A:** Volpe, Roberta, NA62 Collaboration: *Physics beyond SM with kaons from NA62*. (2019). [arXiv:1910.09422 \[hep-ex\]](#).
- A:** Volpe, Roberta, NA62 Collaboration: *Exotic searches at NA62*. [EPJ Web Conf. 199 05001](#) (2019).
- A:** Trilov, Stoyan Miroslavov, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. [The 20th International Workshop on Neutrinos. Proceedings of Science NuFACT2018 127](#) (2019).
- A:** Trilov, Stoyan Miroslavov, NA62 Collaboration: *Searches for heavy neutral lepton production and lepton flavour violation in kaon decays at the NA62 experiment*. [The 20th International Workshop on Neutrinos. Proceedings of Science NuFACT2018 042](#) (2019).
- E:** Takahashi, Fuminobu and Yin, Wen: *ALP inflation and Big Bang on Earth*. [JHEP 07 095](#) (2019). TU-1082; IPMU19-0026, TU-1082, IPMU19-0026, [arXiv:1903.00462 \[hep-ph\]](#).
- T:** Sokolenko, Anastasia: *Enlightening the Dark*. (2019).
- E:** Simon, Frank: *Silicon photomultipliers in particle and nuclear physics*. [Nucl. Instrum. Meth. A 926 85–100](#) (2019). MPP-2018-266, [arXiv:1811.03877 \[physics.ins-det\]](#).
- E:** Rosenthal, M. and others: *Single-muon rate reduction for beam dump operation of the K12 beam line at CERN*. [Int. J. Mod. Phys. A 34 1942026](#) (2019).
- E:** Rosenthal, Marcel and others: *Muon background studies for beam dump operation of the K12 beam line at CERN*. [doi:10.18429/JACoW-ICAP2018-SUPAG05](#) (2019).
- T:** Roels, Jana: *Search for heavy neutral leptons in events with at least 1 tau in the final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS experiment*. (2019).
- T:** Quílez Lasanta, Pablo: *New dynamics in axions and flavor*. (2019).
- T:** Pobbe, Federico: *Hiking the ALPs: Signatures and Models*. (2019).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for production of an invisible dark photon in π^0 decays*. [JHEP 05 182](#) (2019). CERN-EP-2019-048, [arXiv:1903.08767 \[hep-ex\]](#).
- A:** Peruzzo, Letizia and others, NA62 Collaboration: *Search for an invisible vector boson from π^0 decays at NA62*. [Frascati Phys. Ser. 69 194–199](#) (2019).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating K^+ decays*. [Phys. Lett. B 797 134794](#) (2019). CERN-EP-2019-104, [arXiv:1905.07770 \[hep-ex\]](#).
- A:** Swallow, J. and others, NA62 Collaboration: *Search for LNV/LFV K^+ decays at the NA62 Experiment at CERN*. (2019).

- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *First search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ using the decay-in-flight technique.* *Phys. Lett. B* **791** 156–166 (2019). CERN-EP-2018-314, [arXiv:1811.08508 \[hep-ex\]](#).
- A:** Moulson, Matthew, NA62 Collaboration: *Searches for exotic particles at NA62. The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018 629* (2019).
- A:** Moulson, Matthew, KLEVER Project Collaboration: *KLEVER: An experiment to measure $BR(K_L \rightarrow \pi^0 \nu \bar{\nu})$ at the CERN SPS. The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018 529* (2019). [arXiv:1812.01896 \[physics.ins-det\]](#).
- A:** Mirra, Marco, NA62 Collaboration: *SEARCH FOR PRODUCTION OF AN INVISIBLE DARK PHOTON FROM π^0 DECAYS AT NA62.* (2019).
- E:** Merlo, L. and Pobbe, F. and Rigolin, S. and Sumensari, O.: *Revisiting the production of ALPs at B-factories.* *JHEP* **06** 091 (2019). IFT-UAM/CISC-19-56, FTUAM-19-8, [arXiv:1905.03259 \[hep-ph\]](#).
- E:** Massri, Karim, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at CERN: first NA62 results. The 39th International Conference on High Energy Physics. Proceedings of Science ICHEP2018 569* (2019).
- A:** Martellotti, Silvia, NA62 Collaboration: *K^+ decay and NP searches at NA62.* *Nuovo Cim. C* **41** 146 (2019). [arXiv:1807.08340 \[hep-ex\]](#).
- A:** Marchevski, Radoslav, NA62 Collaboration: *Physics beyond the SM with kaons at NA62. XXIX International Symposium on Lepton Photon Interactions at High Energies. Proceedings of Science LeptonPhoton2019 088* (2019).
- T:** Marchevski, Radoslav Ivanov: *First measurement of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay with the NA62 experiment at CERN.* [doi:10.25358/openscience-3030](#) (2019).
- A:** Lurkin, Nicolas, NA62 Collaboration: *Results and prospects for $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO.* *EPJ Web Conf.* **199** 01007 (2019). [arXiv:1809.05384 \[hep-ex\]](#).
- A:** Lazzeroni, Cristina, NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$: first results from the NA62 experiment at CERN.* *J. Phys. Conf. Ser.* **1137** 012001 (2019).
- A:** Laycock, Paul, NA62 Collaboration: *Data preparation for NA62.* *EPJ Web Conf.* **214** 02017 (2019).
- E:** Kozhuharov, Venelin: *Searching for dark sector with missing mass technique in fixed target experiments.* *EPJ Web Conf.* **212** 06001 (2019).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Search for heavy neutrinos at CERN SPS.* (2019). NuPhys2018-Kozhuharov, [arXiv:1904.09124 \[hep-ex\]](#).
- E:** Ambrosino, F. and others, KLEVER Project Collaboration: *KLEVER: An experiment to measure $BR(K_L \rightarrow \pi^0 \nu \bar{\nu})$ at the CERN SPS.* (2019). KLEVER-PUB-18-02, [arXiv:1901.03099 \[hep-ex\]](#).
- A:** Kleimenova, Alina, NA62 Collaboration: *Latest results from NA62. XXVII International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2019 122* (2019).
- E:** Kelly, Kevin J. and Tsai, Yu-Dai: *Proton fixed-target scintillation experiment to search for millicharged dark matter.* *Phys. Rev. D* **100** 015043 (2019). FERMILAB-PUB-18-668-A-PPD-T, [arXiv:1812.03998 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Search for Axion-Like Particles at the NA62 experiment.* (2019).
- E:** Gligorov, Vladimir V. and Knapen, Simon and Nachman, Benjamin and Papucci, Michele and Robinson, Dean J.: *Leveraging the ALICE/L3 cavern for long-lived particle searches.* *Phys. Rev. D* **99** 015023 (2019). [arXiv:1810.03636 \[hep-ph\]](#).
- E:** Gavela, M. B. and Houtz, R. and Quilez, P. and Del Rey, R. and Sumensari, O.: *Flavor constraints on electroweak ALP couplings.* *Eur. Phys. J. C* **79** 369 (2019). [arXiv:1901.02031 \[hep-ph\]](#).
- E:** Frankenthal, A. and others: *Characterization and performance of PADME's Cherenkov-based small-angle calorimeter.* *Nucl. Instrum. Meth. A* **919** 89–97 (2019). [arXiv:1809.10840 \[physics.ins-det\]](#).
- E:** Feng, Jonathan L.: *FASER and the Search for Light and Weakly Interacting Particles.* *Astrophys. Space Sci. Proc.* **56** 69–75 (2019).
- T:** Feiler, Simon: *Study of the Decay $\pi^0 \rightarrow \nu \bar{\nu}$ using Data from CERN Experiment NA62.* (2019). Honours Thesis, The University of British Columbia.
- A:** Federici, L. and others: *The Gigatracker detector of the NA62 experiment at CERN SPS.* *Nucl. Instrum. Meth. A* **936** 715–716 (2019).
- A:** Fantechi, Riccardo: *Review of NA62 and NA48 Physics Results.* [doi:10.1142/9789811202339%5F0085](#) (2019).
- A:** Estrada-Tristán, Nora Patricia, NA62 Collaboration: *Heavy Neutral Lepton Search at NA62.* *Springer Proc. Phys.* **234** 167–172 (2019).
- A:** Estrada Tristan, Nora Patricia, Na62 Collaboration: *Recent kaon decay results from NA62. 7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019 040* (2019).
- A:** Engelfried, Jurgen, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$: First NA62 Results.* *Springer Proc. Phys.* **234** 135–141 (2019).
- A:** Engelfried, Jürgen: *Dark sector searches in non-LHC experiments. 7th Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2019 182* (2019).

- E:** Döbrich, Babette and Jaeckel, Joerg and Spadaro, Tommaso: *Light in the beam dump - ALP production from decay photons in proton beam-dumps*. *JHEP* **05** 213 (2019). [Erratum: *JHEP* **10**, 046 (2020)], [arXiv:1904.02091 \[hep-ph\]](#).
- A:** Döbrich, Babette and Ertaş, Fatih and Kahlhoefer, Felix and Spadaro, Tommaso: *Model-independent bounds on light pseudoscalars from rare B-meson decays*. *Phys. Lett. B* **790** 537–544 (2019). TTK-18-45, [arXiv:1810.11336 \[hep-ph\]](#).
- E:** deNiverville, Patrick and Lee, Hye-Sung: *Implications of the dark axion portal for SHiP and FASER and the advantages of monophoton signals*. *Phys. Rev. D* **100** 055017 (2019). CTPU-PTC-19-13, [arXiv:1904.13061 \[hep-ph\]](#).
- E:** Demidov, S. and Gninenko, S. and Gorbunov, D.: *Light hidden photon production in high energy collisions*. *JHEP* **07** 162 (2019). INR-TH-2018-029, [arXiv:1812.02719 \[hep-ph\]](#).
- A:** Corvino, Michele, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at CERN. The 9th International workshop on Chiral Dynamics*. *Proceedings of Science CD2018* 058 (2019).
- E:** Chun, Eung Jin and Das, Arindam and Mandal, Sanjoy and Mitra, Manimala and Sinha, Nita: *Sensitivity of Lepton Number Violating Meson Decays in Different Experiments*. *Phys. Rev. D* **100** 095022 (2019). OU-HEP-1016, IP/BBSR/2019-4, [arXiv:1908.09562 \[hep-ph\]](#).
- A:** Cenci, Patrizia, NA62 Collaboration: *Search for heavy neutral leptons with kaon experiments at CERN*. *J. Phys. Conf. Ser.* **1137** 012022 (2019).
- A:** Brunetti, M. B.: *Study for an experiment to measure the $K_L \rightarrow \pi^0 \nu \bar{\nu}$ decay at CERN*. *Nuovo Cim. C* **42** 214 (2019).
- A:** Brizioli, Francesco, NA62 Collaboration: *The $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay: First results from the NA62 experiment*. *Nuovo Cim. C* **42** 150 (2019).
- A:** Brizioli, Francesco: *The RICH detector of the NA62 experiment at CERN*. [doi:10.1109/NSS/MIC42101.2019.9059969](#) (2019).
- A:** Boretto, Marco, NA62 Collaboration: *The Data Acquisition System of the Na62 Experiment at CERN*. *EPJ Web Conf.* **214** 01037 (2019).
- E:** Batell, Brian and Berger, Joshua and Ismail, Ahmed: *Probing the Higgs Portal at the Fermilab Short-Baseline Neutrino Experiments*. *Phys. Rev. D* **100** 115039 (2019). PITT-PACC-1906, OSU-HEP-19-07, [arXiv:1909.11670 \[hep-ph\]](#).
- E:** Batell, Brian and Freitas, Ayres and Ismail, Ahmed and Mckeen, David: *Probing Light Dark Matter with a Hadrophilic Scalar Mediator*. *Phys. Rev. D* **100** 095020 (2019). PITT-PACC-1817, [arXiv:1812.05103 \[hep-ph\]](#).
- A:** Ammendola, R. and others: *The integrated low-level trigger and readout system of the CERN NA62 experiment*. *Nucl. Instrum. Meth. A* **929** 1–22 (2019). [arXiv:1903.10200 \[physics.ins-det\]](#).
- E:** Alves Junior, A. A. and others: *Prospects for Measurements with Strange Hadrons at LHCb*. *JHEP* **05** 048 (2019). [arXiv:1808.03477 \[hep-ex\]](#).
- E:** Alimonti, G. and others: *Use of silicon photonics wavelength multiplexing techniques for fast parallel readout in high energy physics*. *Nucl. Instrum. Meth. A* **936** 601–603 (2019).
- T:** Aliberti, Riccardo: *Particle Identification with Calorimeters for the Measurement of the Rare Decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at NA62*. [doi:10.25358/openscience-2818](#) (2019).
- A:** Aglieri Rinella, G. and others: *The NA62 GigaTracker: a low mass high intensity beam 4D tracker with 65 ps time resolution on tracks*. *JINST* **14** P07010 (2019). [arXiv:1904.12837 \[physics.ins-det\]](#).
- A:** Zamkovsky, Michal, NA62 Collaboration: *Search for heavy neutral leptons at the NA62 experiment at CERN*. *Int. J. Mod. Phys. A* **33** 1844026 (2018).
- A:** Volpe, Roberta, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at NA62. XXV International Workshop on Deep-Inelastic Scattering and Related Subjects*. *Proceedings of Science DIS2017* 188 (2018).
- A:** Velghe, Bob, NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$ - NA62 First Result*. (2018). [arXiv:1810.06424 \[hep-ex\]](#).
- A:** Trilov, Stoyan, NA62 Collaboration: *Recent results from NA62. XVII International Conference on Hadron Spectroscopy and Structure*. *Proceedings of Science Hadron2017* 181 (2018).
- T:** Sturgess, Andrew: *Tracking optimisation and the measurement of $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ at NA62*. (2018).
- A:** Soldi, D. and Chiozzi, S. and Gamberini, E. and Gianoli, A. and Mila, G. and Petrucci, F. and Neri, I.: *The NA62 first level trigger*. *Nuovo Cim. C* **41** 53 (2018).
- A:** Soldi, Dario and Chiozzi, Stefano: *Level Zero Trigger Processor for the NA62 experiment*. *JINST* **13** P05004 (2018). [arXiv:1802.06548 \[physics.ins-det\]](#).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *$K^+ \rightarrow \pi^+ \nu \bar{\nu}$: First results from the NA62 experiment at CERN*. *Frascati Phys. Ser.* **66** 345–360 (2018).
- A:** Romano, Angela, NA62, KOTO Collaboration: *$K \rightarrow \pi \nu \bar{\nu}$ from NA62 and KOTO. The International Conference on B-Physics at Frontier Machines*. *Proceedings of Science BEAUTY2018* 028 (2018).
- E:** Renner, Sophie and Schwaller, Pedro: *A flavoured dark sector*. *JHEP* **08** 052 (2018). [arXiv:1803.08080 \[hep-ph\]](#).
- E:** Raggi, M.: *Status of the PADME experiment and review of dark photon searches*. *EPJ Web Conf.* **179** 01020 (2018).

- A: Pinzino, Jacopo, NA62 Collaboration: *Results and prospects of the NA62 experiment at CERN*. *Nuovo Cim. C* 41 49 (2018).
- A: Pinzino, Jacopo, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+\nu\bar{\nu}$ at NA62*. *XIV International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2018* 027 (2018).
- A: Piandani, Roberto, NA48/2, NA62 Collaboration: *Kl3 Form Factors with NA48/2 and NA62 Status*. *Acta Phys. Polon. Supp.* 11 617–623 (2018).
- A: Peruzzo, Letizia, NA48/2, NA62 Collaboration: *Search for heavy neutrinos at the NA48/2 and NA62 experiments at CERN*. *EPJ Web Conf.* 182 02095 (2018).
- A: Parkinson, C. J., NA62 Collaboration: *Search for heavy neutral lepton production in kaon decays*. (2018).
- A: Parkinson, Chris, NA62 Collaboration: *New limits on heavy neutrinos from NA62*. *XXV International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2017* 299 (2018).
- A: Martellotti, Silvia and others, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+\nu\bar{\nu}$ at NA62*. *KnE Energ. Phys.* 3 372–378 (2018).
- A: Marchevski, Radoslav and others, NA62 Collaboration: *K^{++} : first NA62 results*. (2018).
- A: Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays*. *Phys. Lett. B* 778 137–145 (2018). CERN-EP-2017-311, [arXiv:1712.00297 \[hep-ex\]](#).
- A: Mirra, Marco, NA62 Collaboration: *Search for dark photons at NA62*. (2018).
- A: Mirra, M., NA62 Collaboration: *Exotic particle searches at NA62*. *Nuovo Cim. C* 41 48 (2018).
- A: Migliore, Ernesto and others: *4th dimensional tracking: the GigaTracker of the NA62 experiment*. *The 26th International Workshop on Vertex Detectors. Proceedings of Science Vertex 2017* 027 (2018).
- E: Matsuzaki, Shinya and Nishiwaki, Kenji and Yamamoto, Kei: *Simultaneous interpretation of K and B anomalies in terms of chiral-flavorful vectors*. *JHEP* 11 164 (2018). [arXiv:1806.02312 \[hep-ph\]](#).
- A: Massarotti, Paolo, NA62 Collaboration: *$K^+ \rightarrow \pi^+\nu\bar{\nu}$ first NA62 results*. *XXVI International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2018* 227 (2018).
- E: Marsicano, L. and Battaglieri, M. and Celentano, A. and De Vita, R. and Zhong, Yi-Ming: *Probing Leptophilic Dark Sectors at Electron Beam-Dump Facilities*. *Phys. Rev. D* 98 115022 (2018). [arXiv:1812.03829 \[hep-ex\]](#).
- A: Lenti, Massimo, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+\nu\bar{\nu}$ at CERN*. *Hyperfine Interact.* 239 51 (2018).
- A: Lanfranchi, Gaia, NA62 Collaboration: *Search for exotic particles at NA62*. *An Alpine LHC Physics Summit. Proceedings of Science ALPS2018* 010 (2018).
- A: Lamanna, Gianluca, NA62 Collaboration: *NA62 and NA48/2 results on search for Heavy Neutral Leptons*. *EPJ Web Conf.* 179 01009 (2018).
- E: Kitahara, Teppei: *Recent developments on direct CP violation in the kaon system and connection to $K \rightarrow \pi\nu\bar{\nu}$ measurements*. *XIV International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2018* 026 (2018). [arXiv:1811.03332 \[hep-ph\]](#).
- E: Kitahara, Teppei: *Standard Model and New physics for ϵ'_K/ϵ_K* . *EPJ Web Conf.* 179 01007 (2018).
- E: Helo, Juan Carlos and Hirsch, Martin and Wang, Zeren Simon: *Heavy neutral fermions at the high-luminosity LHC*. *JHEP* 07 056 (2018). BONN-TH-2018-01, IFIC/18-08, IFIC-18-08, [arXiv:1803.02212 \[hep-ph\]](#).
- T: Graverini, Elena: *Flavour Physics with (semi)leptonic Decays at Forward Spectrometers*. [doi:10.5167/uzh-152964](#) (2018). CERN-THESIS-2018-097.
- A: Gonnella, Francesco, NA62 Collaboration: *First Results on the Rare Decay $K^+ \rightarrow \pi^+\nu\bar{\nu}$ from the NA62 Experiment at CERN*. *Universe* 4 130 (2018).
- E: Gligorov, Vladimir V. and Knapen, Simon and Papucci, Michele and Robinson, Dean J.: *Searching for Long-lived Particles: A Compact Detector for Exotics at LHCb*. *Phys. Rev. D* 97 015023 (2018). [arXiv:1708.09395 \[hep-ph\]](#).
- E: Gatignon, L.: *Physics at the SPS*. *Rev. Sci. Instrum.* 89 052501 (2018).
- E: Feng, Jonathan L. and Galon, Iftah and Kling, Felix and Trojanowski, Sebastian: *Axionlike particles at FASER: The LHC as a photon beam dump*. *Phys. Rev. D* 98 055021 (2018). UCI-TR-2018-02, [arXiv:1806.02348 \[hep-ph\]](#).
- A: Fantechi, Riccardo: *Recent results from NA62 and NA48*. *EPJ Web Conf.* 192 00030 (2018).
- E: Endo, Motoi and Goto, Toru and Kitahara, Teppei and Mishima, Satoshi and Ueda, Daiki and Yamamoto, Kei: *Gluino-mediated electroweak penguin with flavor-violating trilinear couplings*. *JHEP* 04 019 (2018). KEK-TH-2021, TTP17-050, [arXiv:1712.04959 \[hep-ph\]](#).
- A: Duk, Viacheslav, NA62 Collaboration: *First results on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay search from NA62*. *EPJ Web Conf.* 191 01002 (2018).
- E: Drewes, Marco and Hajer, Jan and Klaric, Juraj and Lanfranchi, Gaia: *Perspectives to find heavy neutrinos with NA62*. (2018). ISBN:9791096879076, [arXiv:1806.00100 \[hep-ph\]](#).
- E: Drewes, Marco and Hajer, Jan and Klaric, Juraj and Lanfranchi, Gaia: *NA62 sensitivity to heavy neutral leptons in the low scale seesaw model*. *JHEP* 07 105 (2018). [arXiv:1801.04207 \[hep-ph\]](#).
- A: Döbrich, Babette, NA62 Collaboration: *Dark Sectors at fixed targets: The example of NA62*. *Frascati Phys. Ser.* 66 312–327 (2018). [arXiv:1807.10170 \[hep-ex\]](#).

- A: Döbrich, Babette, NA62 Collaboration: *Searches for very weakly-coupled particles beyond the Standard Model with NA62*. doi:10.3204/DESY-PROC-2017-02/dobrich%5Fbabette (2018). arXiv:1711.08967 [hep-ex].
- A: Döbrich, Babette: *Axion-like Particles from Primakov production in beam-dumps*. CERN Proc. 1 253 (2018). arXiv:1708.05776 [hep-ph].
- A: Corvino, Michele, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and Future Searches for Exotic Processes at NA62*. Int. J. Mod. Phys. Conf. Ser. 46 1860068 (2018).
- A: Cenci, Patrizia, NA62 Collaboration: *Searches for Heavy Neutrinos at the CERN SPS*. (2018). arXiv:1804.08656 [hep-ex].
- A: Ceccucci, Augusto, NA62 Collaboration: *In-flight Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$: First NA62 Results*. Nucl. Part. Phys. Proc. 303-305 49–52 (2018).
- A: Ceccucci, Augusto, NA62 Collaboration: *In-flight Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$: First NA62 Results*. An Alpine LHC Physics Summit. Proceedings of Science ALPS2018 006 (2018).
- E: Ceccucci, Augusto: *Review and Outlook on Kaon Physics*. Acta Phys. Polon. B 49 1079–1086 (2018).
- A: Bizzeti, Andrea: *The NA62 RICH detector*. Springer Proc. Phys. 212 279–282 (2018). arXiv:1706.08496 [physics.ins-det].
- A: Bician, Lubos: *Search for Heavy Neutral Lepton production in K^+ decays at NA62*. An Alpine LHC Physics Summit. Proceedings of Science ALPS2018 005 (2018).
- A: Bician, Lubos, NA62 Collaboration: *Limits on Heavy Neutrinos at NA48/2 and NA62*. Int. J. Mod. Phys. Conf. Ser. 46 1860043 (2018).
- E: Berlin, Asher and Gori, Stefania and Schuster, Philip and Toro, Natalia: *Dark Sectors at the Fermilab SeaQuest Experiment*. Phys. Rev. D 98 035011 (2018). SLAC-PUB-17238, arXiv:1804.00661 [hep-ph].
- E: Batell, Brian and Han, Tao and McKeen, David and Shams Es Haghi, Barmak: *Thermal Dark Matter Through the Dirac Neutrino Portal*. Phys. Rev. D 97 075016 (2018). PITT-PACC-1710, arXiv:1709.07001 [hep-ph].
- T: Arnau Romeu, Joan: *Search for the lepton flavor violating decays $B_s^0 \rightarrow \tau^\pm \mu^\mp$ and $B^0 \rightarrow \tau^\pm \mu^\mp$ with the LHCb experiment*. (2018). tel-02265292.
- A: Anzivino, G. and others: *Precise mirror alignment and basic performance of the RICH detector of the NA62 experiment at CERN*. JINST 13 P07012 (2018). arXiv:1809.04026 [physics.ins-det].
- A: Antonelli, A. and Gonnella, F. and Kozhuharov, V. and Moulson, M. and Raggi, M. and Spadaro, T.: *Study of the performance of the NA62 small-angle calorimeter at the DAΦNE Linac*. Nucl. Instrum. Meth. A 877 178–182 (2018). arXiv:1610.03827 [physics.ins-det].
- T: Ammendola, Roberto: *A Multi-FPGA High Performance Computing System for 3D FFT-based Numerical Simulations*. (2018). arXiv:2209.02314 [cs.DC].
- A: Aliberti, Riccardo, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at NA62*. EPJ Web Conf. 182 02002 (2018).
- A: Salamon, A. and others: *The NA62 Calorimeter Level 0 Trigger Operation and Performances*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 517 (2017).
- A: Ruggiero, Giuseppe, NA62 Collaboration: *Recent results from kaon physics*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 240 (2017).
- A: Lazzeroni, Cristina and others, NA62 Collaboration: *Search for heavy neutrinos in $K^+ \rightarrow \mu^+ \nu_\mu$ decays*. Phys. Lett. B 772 712–718 (2017). CERN-EP-2017-114, arXiv:1705.07510 [hep-ex].
- A: Lurkin, N. and others, NA62 Collaboration: *Heavy neutrino searches and NA62 status*. (2017). arXiv:1808.00827 [hep-ex].
- A: Moulson, Matthew: *Experimental determination of V_{us} from kaon decays*. 9th International Workshop on the CKM Unitarity Triangle. Proceedings of Science CKM2016 033 (2017). arXiv:1704.04104 [hep-ex].
- E: Mermod, Philippe, SHiP Collaboration: *Prospects of the SHiP and NA62 experiments at CERN for hidden sector searches*. The 19th International Workshop on Neutrinos from Accelerators NUFAC2017. Proceedings of Science NuFact2017 139 (2017). arXiv:1712.01768 [hep-ex].
- A: Marchevski, Radoslav, NA62 Collaboration: *NA48/62 latest results*. The 15th International Conference on Flavor Physics & CP Violation. Proceedings of Science FPCP2017 004 (2017).
- A: Lanfranchi, Gaia, NA62 Collaboration: *Search for Hidden Sector particles at NA62*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 301 (2017).
- A: Koval, Michal, NA62 Collaboration: *New limits on heavy neutrino from NA62*. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 116 (2017).
- A: Kholodenko, S., NA62 Collaboration: *NA62 Charged Particle Hodoscope. Design and performance in 2016 run*. JINST 12 C06042 (2017). arXiv:1705.05093 [physics.ins-det].
- A: Kholodenko, Sergey, NA62 Collaboration: *New limits on heavy neutrino from NA62*. J. Phys. Conf. Ser. 934 012002 (2017).
- T: Kempster, Jacob: *Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collision at $\sqrt{s} = 8$ TeV*. (2017).

- E:** Ishikawa, Akimasa and Lunghi, Enrico and Moulson, Matthew and Serrano, Justine: *Summary of the CKM 2016 working group on rare decays. 9th International Workshop on the CKM Unitarity Triangle. Proceedings of Science CKM2016 016* (2017). [arXiv:1704.07666 \[hep-ph\]](#).
- E:** Fabbrichesi, M. and Gabrielli, E. and Mele, B.: *Hunting down massless dark photons in kaon physics. Phys. Rev. Lett. 119 031801* (2017). [arXiv:1705.03470 \[hep-ph\]](#).
- E:** Dolan, Matthew J. and Ferber, Torben and Hearty, Christopher and Kahlhoefer, Felix and Schmidt-Hoberg, Kai: *Revised constraints and Belle II sensitivity for visible and invisible axion-like particles. JHEP 12 094* (2017). [Erratum: JHEP 03, 190 (2021)][DESY-17-127, arXiv:1709.00009 \[hep-ph\]](#).
- A:** Aisa, D. and others: *Mirror system of the RICH detector of the NA62 experiment. JINST 12 P12017* (2017).
65. Lazzeroni, C. and others, NA62 Collaboration: *Measurement of the π^0 electromagnetic transition form factor slope. Phys. Lett. B 768 38–45* (2017). [arXiv:1612.08162 \[hep-ex\]](#).

47 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics. Phys. Rev. D 110 030001* (2024).
- E:** Afanasev, Andrei and others: *Radiative corrections: from medium to high energy experiments. Eur. Phys. J. A 60 91* (2024). [arXiv:2306.14578 \[hep-ph\]](#).
- E:** Kekez, Dalibor and Klabučar, Dubravko: *Pion observables calculated in Minkowski and Euclidean spaces with Ansätze for quark propagators. Phys. Rev. D 107 094025* (2023). ZTF-EP-20-03, [arXiv:2006.02326 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories. Rept. Prog. Phys. 86 016201* (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Alves, Daniele S. M. and others: *Shedding light on X17: community report. Eur. Phys. J. C 83 230* (2023).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics. PTEP 2022 083C01* (2022).
- T:** Leutgeb, Josef: *Holographic QCD and the anomalous magnetic moment of the muon. doi:10.34726/hss.2022.95726* (2022).
- T:** Lari, Enrico: *Measurements of the neutral meson Dalitz decay with application of Deep Learning techniques.* (2022).
- A:** Lari, Enrico: *Measurements of the $\pi^0 \rightarrow e^+e^-\gamma$ decay with application of Deep Learning techniques.* (2022). CERN-THESIS-2022-276.
- E:** Hoferichter, Martin and Hoid, Bai-Long and Kubis, Bastian and Lüdtke, Jan: *Improved Standard-Model prediction for $\pi^0 \rightarrow e^+e^-$. Phys. Rev. Lett. 128 172004* (2022). UWThPh 2021-4, [arXiv:2105.04563 \[hep-ph\]](#).
- E:** Gan, Liping and Kubis, Bastian and Passemar, Emilie and Tulin, Sean: *Precision tests of fundamental physics with η and η' mesons. Phys. Rept. 945 1–105* (2022). JLAB-THY-20-3219, [arXiv:2007.00664 \[hep-ph\]](#).
- E:** Colangelo, G. and others: *Prospects for precise predictions of a_μ in the Standard Model.* (2022). FERMILAB-CONF-22-236-T, LTH 1303, MITP-22-030, [arXiv:2203.15810 \[hep-ph\]](#).
- E:** Salapura, Piotr and Stroth, Joachim: *Dilepton radiation from strongly interacting systems. Prog. Part. Nucl. Phys. 120 103869* (2021). <https://www.sciencedirect.com/science/article/abs/pii/S0146641021000235>, [arXiv:2005.14589 \[nucl-ex\]](#).
- T:** Hoid, Bai-Long: *Taming Hadronic Effects at the Precision Frontier: From the Muon Anomaly to Rare Decays.* (2021).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics. PTEP 2020 083C01* (2020).
- E:** Kupsc, Andrzej: *Gamma-gamma physics and meson transition form factors. EPJ Web Conf. 234 01008* (2020).
- E:** Husek, Tomáš: *Radiative corrections for Dalitz decays of π^0 , $\eta^{(\prime)}$ and Σ^0 . Nucl. Part. Phys. Proc. 309-311 107–110* (2020). [arXiv:1911.06820 \[hep-ph\]](#).
- E:** Choi, Ho-Meoyng and Ji, Chueng-Ryong: *Chiral anomaly and the pion properties in the light-front quark model. Phys. Rev. D 102 036005* (2020). [arXiv:2006.08034 \[hep-ph\]](#).
- E:** Bickert, Patricia and Scherer, Stefan: *Two-photon decays and transition form factors of π^0 , η , and η' in large- N_c chiral perturbation theory. Phys. Rev. D 102 074019* (2020). [arXiv:2005.08550 \[hep-ph\]](#).
- E:** Aoyama, T. and others: *The anomalous magnetic moment of the muon in the Standard Model. Phys. Rept. 887 1–166* (2020). FERMILAB-PUB-20-207-T, INT-PUB-20-021, KEK Preprint 2020-5, MITP/20-028, KEK Preprint 2020-5, MITP/20-028, CERN-TH-2020-075, IFT-UAM/CSIC-20-74, LMU-ASC 18/20, LTH 1234, LU TP 20-20, LTH 1234, LU TP 20-20, MAN/HEP/2020/003, PSI-PR-20-06, UWThPh 2020-14, ZU-TH 18/20, [arXiv:2006.04822 \[hep-ph\]](#).
- E:** Sanchez-Puertas, Pablo and Kampf, K. and Novotný, J.: *A revision of radiative corrections to double-Dalitz decays. EPJ Web Conf. 199 02014* (2019). [arXiv:1809.01868 \[hep-ph\]](#).
- E:** Leutgeb, Josef and Mager, Jonas and Rebhan, Anton: *Pseudoscalar transition form factors and the hadronic light-by-light contribution to the anomalous magnetic moment of the muon from holographic QCD. Phys. Rev. D 100 094038* (2019). [arXiv:1906.11795 \[hep-ph\]](#).

- E:** Lenz, Thomas and Denig, Achim and Redmer, Christoph Florian: *Measurement of the Time-like Pion Transition Form Factor at BESIII*. *EPJ Web Conf.* **212** 04013 (2019).
- E:** Kupsch, Andrzej: *Experimental input for the HLbL contribution to the muon($g-2$)*. *The 9th International workshop on Chiral Dynamics. Proceedings of Science CD2018* 073 (2019).
- E:** Abouzaid, E. and others, KTeV Collaboration: *Measurement of the branching ratio of π^0 Dalitz Decay using $K_L \rightarrow \pi^0\pi^0\pi^0$ Decays*. *Phys. Rev. D* **100** 032003 (2019). FERMILAB-PUB-19-049-PPD, BNL-211906-2019-JAAM, arXiv:1902.01375 [hep-ex].
- E:** Husek, Tomáš: *Radiative corrections in Dalitz decays of π^0 , η and η' mesons*. *The 9th International workshop on Chiral Dynamics. Proceedings of Science CD2018* 067 (2019).
- E:** Husek, Tomáš and Goudzovski, Evgueni and Kampf, Karol: *Precise determination of the branching ratio of the neutral-pion Dalitz decay*. *Phys. Rev. Lett.* **122** 022003 (2019). arXiv:1809.01153 [hep-ph].
- E:** Heijkenskjöld, Lena, A2 Collaboration: *Meson decay studies from MAMI A2*. *EPJ Web Conf.* **212** 03004 (2019).
- E:** Heijkenskjöld, L., A2 Collaboration: *Meson transition form factor measurements with A2*. *EPJ Web Conf.* **199** 02013 (2019).
- E:** Ding, Minghui and Raya, Khepani and Bashir, Adnan and Binosi, Daniele and Chang, Lei and Chen, Muyang and Roberts, Craig D.: *$\gamma^*\gamma \rightarrow \eta, \eta'$ transition form factors*. *Phys. Rev. D* **99** 014014 (2019). arXiv:1810.12313 [nucl-th].
- E:** Danilkin, Igor and Redmer, Christoph Florian and Vanderhaeghen, Marc: *The hadronic light-by-light contribution to the muon's anomalous magnetic moment*. *Prog. Part. Nucl. Phys.* **107** 20–68 (2019). arXiv:1901.10346 [hep-ph].
- E:** Choi, Ho-Meoyng and Ryu, Hui-Young and Ji, Chueng-Ryong: *Doubly virtual $(\pi^0, \eta, \eta') \rightarrow \gamma^*\gamma^*$ transition form factors in the light-front quark model*. *Phys. Rev. D* **99** 076012 (2019). arXiv:1903.01448 [hep-ph].
- E:** Adlarson, Patrik, A2 Collaboration: *Recent Results on Meson Decays from A2*. *EPJ Web Conf.* **218** 03002 (2019).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Kampf, Karol and Novotný, Jiří and Sanchez-Puertas, Pablo: *Radiative corrections to double-Dalitz decays revisited*. *Phys. Rev. D* **97** 056010 (2018). arXiv:1801.06067 [hep-ph].
- E:** Husek, Tomáš: *Radiative corrections in Dalitz decays of π^0 , η and η' mesons*. *XIII Quark Confinement and the Hadron Spectrum. Proceedings of Science Confinement2018* 078 (2018).
- E:** Husek, Tomáš and Kampf, Karol and Leupold, Stefan and Novotny, Jiří: *Radiative corrections to the $\eta^{(\prime)}$ Dalitz decays*. *Phys. Rev. D* **97** 096013 (2018). arXiv:1711.11001 [hep-ph].
- E:** Hoferichter, Martin and Hoid, Bai-Long and Kubis, Bastian and Leupold, Stefan and Schneider, Sebastian P.: *Dispersion relation for hadronic light-by-light scattering: pion pole*. *JHEP* **10** 141 (2018). INT-PUB-18-042, arXiv:1808.04823 [hep-ph].
- E:** Czyż, Henryk and Kiszka, Patrycja and Tracz, Szymon: *Modeling interactions of photons with pseudoscalar and vector mesons*. *Phys. Rev. D* **97** 016006 (2018). arXiv:1711.00820 [hep-ph].
- E:** Adlarson, Patrik, A2 Collaboration: *Recent Results on Meson Decays from A2*. *EPJ Web Conf.* **166** 00015 (2018).
- A:** Shkarovskiy, Sergey, NA48/2, NA62 Collaboration: *Recent QCD-related results from kaon physics at CERN (NA48/2 and NA62)*. *Acta Phys. Polon. Supp.* **10** 1153–1158 (2017).
- E:** Masjuan, Pere and Sanchez-Puertas, Pablo: *Pseudoscalar-pole contribution to the $(g_\mu - 2)$: a rational approach*. *Phys. Rev. D* **95** 054026 (2017). arXiv:1701.05829 [hep-ph].
- T:** Lurkin, Nicolas: *Neutral pion transition form factor measurement and run control at the NA62 experiment*. (2017).
- T:** Husek, Tomáš: *Some aspects of low-energy QCD at the precision frontier*. (2017).
- E:** Gauzzi, Paolo: *Recent Results on Light Pseudoscalar Mesons*. *The 26th International Nuclear Physics Conference. Proceedings of Science INPC2016* 296 (2017).
- E:** Choi, Ho-Meoyng and Ryu, Hui-Young and Ji, Chueng-Ryong: *Spacelike and timelike form factors for the $(\pi^0, \eta, \eta') \rightarrow \gamma^*\gamma$ transitions in the light-front quark model*. *Phys. Rev. D* **96** 056008 (2017). arXiv:1708.00736 [hep-ph].
- E:** Adlarson, P. and others, A2 Collaboration: *Measurement of the $\pi^0 \rightarrow e^+e^-\gamma$ Dalitz decay at the Mainz Microtron*. *Phys. Rev. C* **95** 025202 (2017). arXiv:1611.04739 [hep-ex].
64. Nigmatkulov, G. A. and others, SELEX Collaboration: *The Transverse Momentum Dependence of Charged Kaon Bose–Einstein Correlations in the SELEX Experiment*. *Phys. Lett. B* **753** 458–464 (2016). arXiv:1501.04316 [hep-ex].

4 Citations:

- A:** Nigmatkulov, Grigory, SELEX Collaboration: *Beam and target dependencies of two-kaon femtoscopic correlations in SELEX*. *EPJ Web Conf.* **138** 03013 (2017).
- T:** Arnold, Oliver Werner: *Study of the hyperon-nucleon interaction via femtoscopy in elementary systems with HADES and ALICE*. (2017). CERN-THESIS-2017-447, GSI-2018-00693.
- E:** Adamczewski-Musch, J. and others, HADES Collaboration: *The Λp interaction studied via femtoscopy in $p + Nb$ reactions at $\sqrt{s_{NN}} = 3.18$ GeV*. *Phys. Rev. C* **94** 025201 (2016). arXiv:1602.08880 [nucl-ex].
- A:** Nigmatkulov, Grigory: *Two-meson Correlation Femtoscopy in the SELEX Experiment*. *Phys. Procedia* **74** 92–96 (2015).

63. Lazzeroni, C. and others, NA62 Collaboration: *Study of the $K^\pm \rightarrow \pi^\pm \gamma \gamma$ decay by the NA62 experiment.* *Phys. Lett. B* 732 65–74 (2014). [arXiv:1402.4334 \[hep-ex\]](#).

78 Citations:

- E:** Yue, Chong-Xing and Li, Xin-Yang and Wang, Mei-Shu-Yu and Bu, Yang-Yang: *Probing the couplings of an axionlike particle with leptons via three-lepton final state processes at future e-p colliders.* *Phys. Rev. D* 111 075015 (2025). [arXiv:2503.03179 \[hep-ph\]](#).
- A:** Akmete, Atakan Tugberk: *New results from analyses of rare kaon and pion decays at the NA62 experiment.* *42nd International Conference on High Energy Physics. Proceedings of Science ICHEP2024* 446 (2025).
- E:** Yue, Chong-Xing and Li, Xin-Yang and Sun, Xiao-Chen: *Prospects for detecting the couplings of axion-like particle with neutrinos at the CEPC.* *Eur. Phys. J. C* 84 1033 (2024). [arXiv:2404.13226 \[hep-ph\]](#).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* 110 030001 (2024).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Measurement of the $K^+ \rightarrow \pi^+ \gamma \gamma$ decay.* *Phys. Lett. B* 850 138513 (2024). CERN-EP-2023-247, [arXiv:2311.01837 \[hep-ex\]](#).
- E:** Coloma, Pilar and Martín-Albo, Justo and Urrea, Salvador: *Discovering long-lived particles at DUNE.* *Phys. Rev. D* 109 035013 (2024). IFT-UAM/CSIC-23-111, IFIC/23-40, FTUV-23-0823.4331, [arXiv:2309.06492 \[hep-ph\]](#).
- E:** Chakraborty, Sabyasachi and Gupta, Aritra and Vanvlasselaer, Miguel: *Photoproduction of heavy QCD axions in supernovae.* *Phys. Rev. D* 110 063032 (2024). [arXiv:2403.12169 \[hep-ph\]](#).
- E:** Bonilla, J. and Gavela, B. and Machado-Rodríguez, J.: *Limits on ALP-neutrino couplings from loop-level processes.* *Phys. Rev. D* 109 055023 (2024). IFT-UAM/CSIC-23-121, [arXiv:2309.15910 \[hep-ph\]](#).
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Precision measurements with kaon and pion decays at CERN.* *EPJ Web Conf.* 314 00003 (2024).
- E:** Bisht, Deepanshu and Chakraborty, Sabyasachi and Samanta, Atanu: *A comprehensive study of ALPs from B-decays.* (2024). [arXiv:2412.09678 \[hep-ph\]](#).
- E:** Allen, Stephanie and Blackburn, Albany and Cardenas, Oswaldo and Messenger, Zoe and Nguyen, Ngan H. and Shuve, Brian: *Electroweak axion portal to dark matter.* *Phys. Rev. D* 110 095010 (2024). [arXiv:2405.02403 \[hep-ph\]](#).
- E:** Adhikary, Amit and Borah, Debasish and Mahapatra, Satyabrata and Saha, Indrajit and Sahu, Narendra and Thounaojam, Vicky Singh: *New realisation of light thermal dark matter with enhanced detection prospects.* *JCAP* 12 043 (2024). [arXiv:2405.17564 \[hep-ph\]](#).
- T:** Schnubel, Marvin: *Two applications of effective field theory: factorisation of $gg \rightarrow h$ in SCET & flavour physics of ALPs.* [doi:10.25358/openscience-9558](#) (2023).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN.* *Phys. Atom. Nucl.* 86 1301–1309 (2023).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories.* *Rept. Prog. Phys.* 86 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Fitzpatrick, Patrick J. and Hochberg, Yonit and Kuflik, Eric and Ovadia, Rotem and Soreq, Yotam: *Dark matter through the axion-gluon portal.* *Phys. Rev. D* 108 075003 (2023). [arXiv:2306.03128 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC.* *J. Phys. G* 50 030501 (2023). UCI-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report.* *Eur. Phys. J. C* 83 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* 2022 083C01 (2022).
- E:** Knapen, Simon and Kumar, Soubhik and Redigolo, Diego: *Searching for axionlike particles with data scouting at ATLAS and CMS.* *Phys. Rev. D* 105 115012 (2022). CERN-TH-2021-216, [arXiv:2112.07720 \[hep-ph\]](#).
- E:** Hostert, Mathews and Pospelov, Maxim: *Novel multilepton signatures of dark sectors in light meson decays.* *Phys. Rev. D* 105 015017 (2022). FTPI-MINN-20-34, [arXiv:2012.02142 \[hep-ph\]](#).
- T:** Green, Patrick J.: *Light and Dark in Liquid Argon Time Projection Chamber Neutrino Detectors.* (2022). [FERMILAB-THESIS-2022-29](#).
- E:** Adhikari, S. and others, GlueX Collaboration: *Search for photoproduction of axionlike particles at GlueX.* *Phys. Rev. D* 105 052007 (2022). GlueX Doc 4971, JLAB-PHY-22-3588, [arXiv:2109.13439 \[hep-ex\]](#).
- E:** Ghebretinsaea, Filmon Andom and Wang, Zeren Simon and Wang, Kechen: *Probing axion-like particles coupling to gluons at the LHC.* *JHEP* 07 070 (2022). [arXiv:2203.01734 \[hep-ph\]](#).
- E:** Dev, P. S. Bhupal and Fortin, Jean-François and Harris, Steven P. and Sinha, Kuver and Zhang, Yongchao: *Light scalars in neutron star mergers.* *JCAP* 01 006 (2022). INT-PUB-21-024, [arXiv:2111.05852 \[hep-ph\]](#).
- E:** P.S. Bhupal Dev and Jean-François Fortin and Steven P. Harris and Kuver Sinha and Yongchao Zhang: *Light scalars in neutron star mergers.* *Journal of Cosmology and Astroparticle Physics* 2022 006 (2022).

- E: Coloma, Pilar and Hernández, Pilar and Urrea, Salvador: *New bounds on axion-like particles from MicroBooNE*. *JHEP* **08** 025 (2022). [arXiv:2202.03447 \[hep-ph\]](#).
- E: Coffey, John and McKeen, David and Morrissey, David E. and Raj, Nirmal: *Neutron star observations of pseudoscalar-mediated dark matter*. *Phys. Rev. D* **106** 115019 (2022). [arXiv:2207.02221 \[hep-ph\]](#).
- E: Blinov, Nikita and Kowalczyk, Elizabeth and Wynne, Margaret: *Axion-like particle searches at DarkQuest*. *JHEP* **02** 036 (2022). FERMILAB-PUB-21-749-V, [arXiv:2112.09814 \[hep-ph\]](#).
- E: Bertholet, Emilie and Chakraborty, Sabyasachi and Loladze, Vazha and Okui, Takemichi and Soffer, Abner and Tobioka, Kohsaku: *Heavy QCD axion at Belle II: Displaced and prompt signals*. *Phys. Rev. D* **105** L071701 (2022). KEK-TH-2343, [arXiv:2108.10331 \[hep-ph\]](#).
- E: Bauer, Martin and Neubert, Matthias and Renner, Sophie and Schnubel, Marvin and Thamm, Andrea: *Flavor probes of axion-like particles*. *JHEP* **09** 056 (2022). MITP/21-025, CERN-TH-2021-148, IPPP/21/37, [arXiv:2110.10698 \[hep-ph\]](#).
- E: Batell, Brian and Blinov, Nikita and Hearty, Christopher and McGehee, Robert: *Exploring Dark Sector Portals with High Intensity Experiments*. (2022). [arXiv:2207.06905 \[hep-ph\]](#).
- E: Balaji, Shyam and Dev, P. S. Bhupal and Silk, Joseph and Zhang, Yongchao: *Improved stellar limits on a light CP-even scalar*. *JCAP* **12** 024 (2022). [arXiv:2205.01669 \[hep-ph\]](#).
- E: Lees, J. P. and others, BaBar Collaboration: *Search for an Axionlike Particle in B Meson Decays*. *Phys. Rev. Lett.* **128** 131802 (2022). BABAR-PUB-21/006, SLAC-PUB-17631, [arXiv:2111.01800 \[hep-ex\]](#).
- E: Knapen, Simon and Thamm, Andrea: *Direct discovery of new light states at the FCCee*. *Eur. Phys. J. Plus* **136** 936 (2021). [arXiv:2108.08949 \[hep-ph\]](#).
- T: Ertaş, Fatih: *Phenomenology of light pseudoscalar particles*. [doi:10.18154/RWTH-2021-09397](#) (2021).
- E: Dev, P. S. Bhupal and Mohapatra, Rabindra N. and Zhang, Yongchao: *Stellar limits on light CP-even scalar*. *JCAP* **05** 014 (2021). [arXiv:2010.01124 \[hep-ph\]](#).
- E: Chakraborty, Sabyasachi and Kraus, Manfred and Loladze, Vazha and Okui, Takemichi and Tobioka, Kohsaku: *Heavy QCD axion in $b \rightarrow s$ transition: Enhanced limits and projections*. *Phys. Rev. D* **104** 055036 (2021). [Erratum: *Phys.Rev.D* **108**, 039903 (2023)]KEK-TH-2295, [arXiv:2102.04474 \[hep-ph\]](#).
- E: Agrawal, Prateek and others: *Feebly-interacting particles: FIPs 2020 workshop report*. *Eur. Phys. J. C* **81** 1015 (2021). [arXiv:2102.12143 \[hep-ph\]](#).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- T: McGehee, Robert Stephen: *Discoverable Matter: an Optimist's View of Dark Matter and How to Find it*. (2020).
- E: Kitahara, Teppei and Okui, Takemichi and Perez, Gilad and Soreq, Yotam and Tobioka, Kohsaku: *New physics implications of recent search for $K_L \rightarrow \pi^0 \nu \bar{\nu}$ at KOTO*. *Phys. Rev. Lett.* **124** 071801 (2020). KEK-TH-2157, CERN-TH-2019-151, [arXiv:1909.11111 \[hep-ph\]](#).
- E: Gori, Stefania and Perez, Gilad and Tobioka, Kohsaku: *KOTO vs. NA62 Dark Scalar Searches*. *JHEP* **08** 110 (2020). [arXiv:2005.05170 \[hep-ph\]](#).
- E: Ertaş, Fatih and Kahlhoefer, Felix: *On the interplay between astrophysical and laboratory probes of MeV-scale axion-like particles*. *JHEP* **07** 050 (2020). TTK-20-08, [arXiv:2004.01193 \[hep-ph\]](#).
- E: Dev, P. S. Bhupal and Mohapatra, Rabindra N. and Zhang, Yongchao: *Revisiting supernova constraints on a light CP-even scalar*. *JCAP* **08** 003 (2020). [Erratum: *JCAP* **11**, E01 (2020)], [arXiv:2005.00490 \[hep-ph\]](#).
- E: Dev, P. S. Bhupal and Mohapatra, Rabindra N. and Zhang, Yongchao: *Constraints on long-lived light scalars with flavor-changing couplings and the KOTO anomaly*. *Phys. Rev. D* **101** 075014 (2020). [arXiv:1911.12334 \[hep-ph\]](#).
- E: Beacham, J. and others: *Physics Beyond Colliders at CERN: Beyond the Standard Model Working Group Report*. *J. Phys. G* **47** 010501 (2020). CERN-PBC-REPORT-2018-007, [arXiv:1901.09966 \[hep-ex\]](#).
- E: Alves, Alexandre and Dias, Alex G. and Lopes, Diego D.: *Probing ALP-Sterile Neutrino Couplings at the LHC*. *JHEP* **08** 074 (2020). [arXiv:1911.12394 \[hep-ph\]](#).
- T: Schutz, Katharine: *Searching for the invisible: how dark forces shape our Universe*. (2019).
- E: Aloni, Daniel and Fanelli, Cristiano and Soreq, Yotam and Williams, Mike: *Photoproduction of Axionlike Particles*. *Phys. Rev. Lett.* **123** 071801 (2019). CERN-TH-2019-023, [arXiv:1903.03586 \[hep-ph\]](#).
- E: Aloni, Daniel and Soreq, Yotam and Williams, Mike: *Coupling QCD-Scale Axionlike Particles to Gluons*. *Phys. Rev. Lett.* **123** 031803 (2019). CERN-TH-2018-237, MIT-CTP/5080, MIT-CTP-5080, [arXiv:1811.03474 \[hep-ph\]](#).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E: Hochberg, Yonit and Kuflik, Eric and McGehee, Robert and Murayama, Hitoshi and Schutz, Katelin: *Strongly interacting massive particles through the axion portal*. *Phys. Rev. D* **98** 115031 (2018). DESY-18-101, IPMU18-0114, [arXiv:1806.10139 \[hep-ph\]](#).
- E: Cata, Oscar: *Radiative kaon decays: where do we stand?*. *XIV International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2018* 030 (2018).
- E: Capiello, Luigi and Catà, Oscar and D'Ambrosio, Giancarlo: *Closing in on the radiative weak chiral couplings*. *Eur. Phys. J. C* **78** 265 (2018). [arXiv:1712.10270 \[hep-ph\]](#).

- E: Kahlhoefer, Felix and Schmidt-Hoberg, Kai and Wild, Sebastian: *Dark matter self-interactions from a general spin-0 mediator*. *JCAP* **08** 003 (2017). DESY-17-052, [arXiv:1704.02149 \[hep-ph\]](#).
- E: Izaguirre, Eder and Lin, Tongyan and Shuve, Brian: *Searching for Axionlike Particles in Flavor-Changing Neutral Current Processes*. *Phys. Rev. Lett.* **118** 111802 (2017). SLAC-PUB-16876, [arXiv:1611.09355 \[hep-ph\]](#).
- E: Dev, P. S. Bhupal and Mohapatra, Rabindra N. and Zhang, Yongchao: *Long-lived Light Scalars at the LHC*. *Acta Phys. Polon. B* **48** 969–980 (2017).
- E: Dev, P. S. Bhupal and Mohapatra, Rabindra N. and Zhang, Yongchao: *Long Lived Light Scalars as Probe of Low Scale Seesaw Models*. *Nucl. Phys. B* **923** 179–221 (2017). ULB-TH-17-05, UMD-PP-017-21, [arXiv:1703.02471 \[hep-ph\]](#).
- A: Velghe, Bob, NA62-RK, NA48/2 Collaboration: *K Studies at NA48/2 and NA62-RK Experiments at CERN*. *Nucl. Part. Phys. Proc.* **273-275** 2720–2722 (2016).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- A: Ceccucci, A. and Goudzovski, E. and Kekelidze, V. and Madigozhin, D. and Potrebennikov, I.: *Kaon decay studies at CERN SPS in the last decades*. *Phys. Part. Nucl.* **47** 567–590 (2016).
- A: Piandani, Roberto, NA48/2, NA62 Collaboration: *ChPT test at NA48 and NA62 experiment at CERN*. *Nucl. Part. Phys. Proc.* **258-259** 75–79 (2015).
- A: Lenti, Massimo: *Chiral Perturbation Theory tests at NA48/2 and NA62 experiments at CERN*. *J. Phys. Conf. Ser.* **631** 012039 (2015).
- E: D’Ambrosio, Giancarlo: *Theory of Kaon Physics. XIIth International Conference on Heavy Quarks & Leptons 2014. Proceedings of Science HQL2014 021* (2015).
- E: D’Ambrosio, Giancarlo: *Rare kaon decay: challenges and perspectives*. *Flavor Physics & CP Violation 2015. Proceedings of Science FPCP2015 018* (2015).
- E: Andreazza, A. and others: *What Next: White Paper of the INFN-CSN1*. (2015).
- A: Smith, Christopher: *Rare K decays: Challenges and Perspectives*. (2014). LPSC14223, [arXiv:1409.6162 \[hep-ph\]](#).
- A: Raggi, Mauro, NA48/2, NA62-RK Collaboration: *QCD tests with Kaons*. *J. Phys. Conf. Ser.* **556** 012003 (2014).
- E: Bijmans, J. and others: *Light Meson Dynamics Workshop. Mini proceedings*. (2014). MITP-14-015, [arXiv:1403.6380 \[hep-ph\]](#).
- A: Petrov, Plamen, NA48/2, NA62 Collaboration: *Measurement of the rare decay $K^\pm \rightarrow \pi^\pm \gamma \gamma$* . *XXII. International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2014 166* (2014).
- A: Madigozhin, Dmitry and others, NA62, NA48/2 Collaboration: *ChPT tests at the NA48 and NA62 experiments at CERN. XIIth International Conference on Heavy Quarks & Leptons 2014. Proceedings of Science HQL2014 022* (2014). [arXiv:1601.08014 \[hep-ex\]](#).
- A: Madigozhin, D. and others: *Recent NA48/2 and NA62 results*. (2014). [arXiv:1408.0585 \[hep-ex\]](#).
- A: Kozhuharov, Venelin, NA62 Collaboration: *NA62 experiment at CERN SPS*. *EPJ Web Conf.* **80** 00003 (2014). [arXiv:1412.0240 \[hep-ex\]](#).
- A: Gonnella, Francesco, NA48/2, NA62 Collaboration: *ChPT tests at NA48 and NA62*. *EPJ Web Conf.* **81** 03005 (2014).
- A: Duk, V. A., NA62 Collaboration: *Study of the rare decay $K^+ \rightarrow \pi^+ \gamma \gamma$ at the NA62 experiment*. (2014).
- A: Costantini, Flavio, NA62-RK Collaboration: *Chiral Perturbation Theory tests at NA48 and NA62-RK experiments at CERN*. [doi:10.3204/DESY-PROC-2014-04/16](#) (2014).
- E: Braun, Vladimir and Britzger, Daniel and Kousouris, Konstantinos: *WG4 Highlights: QCD and Hadronic Final States. XXII. International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2014 004* (2014).
62. Lazzeroni, C. and others, NA62 Collaboration: *Precision Measurement of the Ratio of the Charged Kaon Leptonic Decay Rates*. *Phys. Lett. B* **719** 326–336 (2013). [arXiv:1212.4012 \[hep-ex\]](#).

198 Citations:

- E: Wang, Zeren Simon and Zhang, Yu and Chen, Liangwen: *Searching for long-lived particles from stopped pions and muons at the CiADS-BDE*. (2025). [arXiv:2501.15460 \[hep-ph\]](#).
- E: Altmannshofer, Wolfgang and Toner, Kevin: *Flavor constraints in a generational three-Higgs-doublet model*. *Phys. Rev. D* **111** 075009 (2025). [arXiv:2502.04579 \[hep-ph\]](#).
- E: Patnaik, Sonali and Nayak, Lopamudra and Singh, Rajeev: *Assessing Lepton Flavor Universality Violations in Semileptonic Decays*. *Eur. Phys. J. ST* **233** 2087 (2024). [arXiv:2308.05677 \[hep-ph\]](#).
- E: Patnaik, Sonali and Nayak, Lopamudra and Sadangi, Priyanka and Swain, Sanjay and Singh, Rajeev: *Study of angular observables in exclusive semileptonic Bc decays*. *Phys. Rev. D* **110** 055028 (2024). [arXiv:2312.17114 \[hep-ph\]](#).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).

- E:** Aaij, Roel and others, LHCb Collaboration: *Test of lepton flavour universality with $B^+ \rightarrow K^+\pi^+\pi^-\ell^+\ell^-$ decays.* (2024). LHCb-PAPER-2024-046, CERN-EP-2024-312, [arXiv:2412.11645 \[hep-ex\]](#).
- T:** Feichtinger, Paul: *Test of light-lepton universality in tau decays with data from the Belle II experiment.* doi:10.34726/hss.2024.95921 (2024). BELLE2-PHESIS-2024-014.
- T:** Couturier, Benjamin: *Lepton Flavour Universality and analysis frameworks.* (2024). CERN-THESIS-2024-199.
- E:** Adachi, Ichiro and others, Belle-II Collaboration: *Test of light-lepton universality in τ decays with the Belle II experiment.* *JHEP* 08 205 (2024). Belle II Preprint 2024-002, KEK Preprint 2023-49, [arXiv:2405.14625 \[hep-ex\]](#).
- E:** Bakhti, Pouya and Rajae, Meshkat and Shin, Seodong: *Uncovering secret neutrino interactions at tau neutrino experiments.* *Phys. Rev. D* 109 095043 (2024). [arXiv:2311.14945 \[hep-ph\]](#).
- E:** Afanasev, Andrei and others: *Radiative corrections: from medium to high energy experiments.* *Eur. Phys. J. A* 60 91 (2024). [arXiv:2306.14578 \[hep-ph\]](#).
- T:** Xu, Fang: *Lepton Flavor Violation and Lepton Flavor Universality Violation: Opportunity for New Physics Beyond the Standard Model.* (2023).
- T:** Su, Hang: *CHARGED-CURRENT DOUBLE-DIFFERENTIAL CROSS SECTION MEASUREMENT OF ELECTRON NEUTRINOS IN LOW RECOIL REGION ON HYDROCARBON AT $\langle E\nu \rangle \sim 7$ GEV.* (2023). FERMILAB-THESIS-2022-26 .
- E:** Shrock, Robert: *Some Theoretical Aspects of Searches for Heavy Neutrino Emission in Kaon Decays.* *J. Phys. Conf. Ser.* 2446 012029 (2023).
- E:** Shimizu, Suguru, J-PARC E36 Collaboration: *Measurement of structure dependent radiative $K^+ \rightarrow e^+\nu\gamma$ decay at J-PARC.* *J. Phys. Conf. Ser.* 2446 012014 (2023).
- E:** Patnaik, Sonali and Singh, Rajeev: *A Light Shed on Lepton Flavor Universality in B Decays.* *Universe* 9 129 (2023). [arXiv:2211.04348 \[hep-ph\]](#).
- T:** Normand, Camille: *$B_s \rightarrow \mu^+\mu^-\gamma$ as a partly reconstructed decay: from the Standard Model prediction and New-Physics sensitivity, to a search at the LHCb experiment.* (2023). CERN-THESIS-2023-314.
- T:** Muñoz Albornoz, Víctor: *New Physics Searches from Cosmic-Ray Air-Showers.* (2023).
- T:** Lomba Castro, Julián: *Lepton Universality measurements in semileptonic decays of b-quark hadrons in the LHCb experiment at CERN.* (2023).
- E:** Kitahara, Teppei and Tobioka, Kohsaku: *MeV sterile neutrino in light of the Cabibbo-angle anomaly.* *Phys. Rev. D* 108 115034 (2023). KEK-TH-2544, [arXiv:2308.13003 \[hep-ph\]](#).
- E:** Kobayashi, A. and others, J-PARC E36 Collaboration: *New determination of the branching ratio of the structure dependent radiative $K^+Bl^s \rightarrow Bl^s e^+ \nu e \gamma$.* *Phys. Lett. B* 843 138020 (2023). [arXiv:2212.10702 \[hep-ex\]](#).
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- T:** Henshaw, Jack Christopher: *Beam intensity effects on the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ measurement at NA62.* (2023). CERN-THESIS-2023-422.
- E:** Guerrero, Alfredo Walter Mario and Rigolin, Stefano: *ALP Production in Weak Mesonic Decays.* *Fortsch. Phys.* 71 2200192 (2023). [arXiv:2211.08343 \[hep-ph\]](#).
- E:** Goudzovski, Evgueni and others: *New physics searches at kaon and hyperon factories.* *Rept. Prog. Phys.* 86 016201 (2023). FERMILAB-PUB-22-057-T, [arXiv:2201.07805 \[hep-ph\]](#).
- E:** Feng, Jonathan L. and others: *The Forward Physics Facility at the High-Luminosity LHC.* *J. Phys. G* 50 030501 (2023). UCI-TR-2022-01, CERN-PBC-Notes-2022-001, INT-PUB-22-006, BONN-TH-2022-04, FERMILAB-PUB-22-094-ND-SCD-T, [arXiv:2203.05090 \[hep-ex\]](#).
- E:** Cirigliano, Vincenzo and Crivellin, Andreas and Hoferichter, Martin and Moulson, Matthew: *Scrutinizing CKM unitarity with a new measurement of the $K\mu_3/K\mu_2$ branching fraction.* *Phys. Lett. B* 838 137748 (2023). INT-PUB-22-024, PSI-PR-22-28, ZU-TH 43/22, [arXiv:2208.11707 \[hep-ph\]](#).
- T:** Celani, Sara: *Testing lepton flavour universality in $B^+ \rightarrow K^+\pi^+\pi^-\ell^+\ell^-$ decays with LHCb.* doi:10.5075/epfl-thesis-10266 (2023). CERN-THESIS-2023-121.
- E:** Zhu, Bin and Liu, Xuewen: *Probing the flavor-specific scalar mediator for the muon ($g - 2$) deviation, the proton radius puzzle and the light dark matter production.* *Sci. China Phys. Mech. Astron.* 65 231011 (2022). [arXiv:2104.03238 \[hep-ph\]](#).
- T:** Seuthe, Alex: *Test of lepton flavour universality with rare beauty-quark decays at the LHCb experiment.* doi:10.17877/DE290R-22834 (2022).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* 2022 083C01 (2022).
- T:** Neutelings, Izaak: *A Search for Leptoquarks Coupling to τ Leptons and Bottom Quarks in Proton-Proton Collisions at the CMS Experiment.* doi:10.5167/uzh-253124 (2022).
- A:** , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams.* (2022). [arXiv:2204.13394 \[hep-ex\]](#).
- T:** Miranda, Álex: *Effective field theory analyses of low-energy precision probes in the search for new physics.* (2022).

- E:** Kobayashi, Atsushi, E36 Collaboration: *Measurement of structure dependent radiative $K^+ \rightarrow e^+ \nu \gamma$ decays using stopped positive kaons at J-PARC*. *Particles and Nuclei International Conference 2021. Proceedings of Science PANIC2021 161* (2022).
- E:** Ito, H. and others, J-PARC E36 Collaboration: *Measurement of structure dependent radiative $K^+ B \Gamma_s \rightarrow B \Gamma_s e^+ \nu \gamma$ decays using stopped positive kaons*. *Phys. Lett. B 826 136913* (2022). [arXiv:2107.03583 \[hep-ex\]](#).
- E:** Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). CERN-SPSC-2022-031, SPSC-I-257, [arXiv:2211.16586 \[hep-ex\]](#).
- E:** Goudzovski, Evgueni and others: *Weak Decays of Strange and Light Quarks*. (2022). [arXiv:2209.07156 \[hep-ex\]](#).
- T:** Giugliano, Carmen: *Test of Lepton Flavour Universality using the $B_s^0 \rightarrow D_s^- \tau^+ \nu_\tau$ with 3 prongs τ^+ decays and validation of the new opto-electronics for the RICH Upgrade at the LHCb experiment*. (2022). CERN-THESIS-2022-130.
- E:** Gallo, Jorge Alda and Guerrero, Alfredo Walter Mario and Peñaranda, Siannah and Rigolin, Stefano: *Leptonic meson decays into invisible ALP*. *Nucl. Phys. B 979 115791* (2022). [arXiv:2111.02536 \[hep-ph\]](#).
- E:** Dai, Lin and Kim, Chul and Leibovich, Adam K.: *Universal lepton universality violation in exclusive processes*. *Phys. Rev. D 105 L031301* (2022). [arXiv:2103.03963 \[hep-ph\]](#).
- E:** Crivellin, Andreas and Kirk, Fiona and Manzari, Claudio Andrea: *Comprehensive analysis of charged lepton flavour violation in the symmetry protected type-I seesaw*. *JHEP 12 031* (2022). PSI-PR-22-24, ZU-TH 33/22, [arXiv:2208.00020 \[hep-ph\]](#).
- T:** Cicala, Flavia: *Measurement of the angular distribution of the $B^+ \rightarrow \pi^+ \mu^- \mu^+$ decay and R&D towards a future upgrade of the particle identification system of the LHCb experiment*. (2022). CERN-THESIS-2022-350.
- T:** Bühner, Felix: *Measurements of the inclusive $W \rightarrow e \nu$ and the combined $WW + WU \rightarrow l \nu q'$ production cross sections with the ATLAS detector*. [doi:10.6094/UNIFR/226887](#) (2022).
- E:** Bryman, Douglas and Cirigliano, Vincenzo and Crivellin, Andreas and Inguglia, Gianluca: *Testing Lepton Flavor Universality with Pion, Kaon, Tau, and Beta Decays*. *Ann. Rev. Nucl. Part. Sci. 72 69–91* (2022). CERN-TH-2021-184, LA-UR-21-30608, ZU-TH 54/21, [arXiv:2111.05338 \[hep-ph\]](#).
- E:** Blum, T. and others: *Fundamental Physics in Small Experiments*. (2022). [arXiv:2209.08041 \[hep-ex\]](#).
- T:** Birman, Mattias: *Data-driven searches for physics beyond the Standard Model in high energy collision data using the $e\mu$ -symmetry method*. (2022). CERN-THESIS-2022-298.
- E:** Bickendorf, Gerrit and Drees, Manuel: *Constraints on light leptophilic dark matter mediators from decay experiments*. *Eur. Phys. J. C 82 1163* (2022). [arXiv:2206.05038 \[hep-ph\]](#).
- E:** Bhupal Dev, P. S. and Soni, Amarjit and Xu, Fang: *Hints of natural supersymmetry in flavor anomalies?*. *Phys. Rev. D 106 015014* (2022). [arXiv:2106.15647 \[hep-ph\]](#).
- T:** Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- T:** Moise, Razvan-Daniel: *First evidence for the violation of lepton flavour universality in rare beauty-quark decays*. [doi:10.25560/97105](#) (2021).
- T:** Meloni, Simone: *Test of lepton flavour universality with the simultaneous measurement of $\mathcal{R}(D^+)$ and $\mathcal{R}(D^{*+})$ with $\tau^- \rightarrow \mu^- \nu_\tau \bar{\nu}_\mu$ decays at the LHCb experiment*. (2021). CERN-THESIS-2021-266.
- E:** Manzari, Claudio Andrea and Coutinho, Antonio M. and Crivellin, Andreas: *Modified lepton couplings and the Cabibbo-angle anomaly*. *The Eighth Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2020 242* (2021). [arXiv:2009.03877 \[hep-ph\]](#).
- E:** Lyu, Kun-Feng and Stamou, Emmanuel and Wang, Lian-Tao: *Self-interacting neutrinos: Solution to Hubble tension versus experimental constraints*. *Phys. Rev. D 103 015004* (2021). [arXiv:2004.10868 \[hep-ph\]](#).
- T:** Hudec, Matěj: *Aspects of baryon and lepton number non-conservation in the Standard model of particle interactions and beyond*. (2021).
- E:** Crivellin, Andreas and Müller, Dario and Schnell, Luc: *Combined constraints on first generation leptoquarks*. *Phys. Rev. D 103 115023* (2021). [Addendum: *Phys.Rev.D 104, 055020* (2021)]CERN-TH-2021-053, PSI-PR-21-05, ZU-TH 16/21, CERN-TH-2021-012, PSI-PR-21-01, ZU-TH 01/21, [arXiv:2104.06417 \[hep-ph\]](#).
- E:** Chen, Shenjian and Olsen, Stephen Lars: *New physics searches at the BESIII experiment*. *Natl. Sci. Rev. 8 nwab189* (2021). [arXiv:2102.13290 \[hep-ph\]](#).
- E:** Celani, Sara, LHCb Collaboration: *Lepton Flavour Universality tests and Lepton Flavour Violation searches at LHCb*. (2021). [arXiv:2111.11105 \[hep-ex\]](#).
- E:** Ceccucci, Augusto: *Rare Kaon Decays*. *Ann. Rev. Nucl. Part. Sci. 71 113–137* (2021).
- E:** Capdevila, Bernat and Crivellin, Andreas and Manzari, Claudio Andrea and Montull, Marc: *Explaining $b \rightarrow s \ell^+ \ell^-$ and the Cabibbo angle anomaly with a vector triplet*. *Phys. Rev. D 103 015032* (2021). PSI-PR-20-07, ZU-TH 19/20, [arXiv:2005.13542 \[hep-ph\]](#).
- T:** Calladine, Ryan Bernard: *Determination of the $r_{J/\psi}^K$ and $r_{J/\psi}^{K^*}$ Ratios for Lepton Universality Measurements at LHCb*. (2021).
- E:** Bahraminasr, Majid and Bakhti, Pouya and Rajaei, Meshkat: *Sensitivities to secret neutrino interaction at FASER ν* . *J. Phys. G 48 095001* (2021). [arXiv:2003.09985 \[hep-ph\]](#).

- E:** Albrecht, Johannes and van Dyk, Danny and Langenbruch, Christoph: *Flavour anomalies in heavy quark decays*. *Prog. Part. Nucl. Phys.* **120** 103885 (2021). [arXiv:2107.04822 \[hep-ex\]](#).
- E:** Teixeira, Ana M.: *Muon physics: from phenomenology to experiment*. *The 21st international workshop on neutrinos from accelerators*. *Proceedings of Science NuFact2019* **016** (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- E:** Li, Tong and Ma, Xiao-Dong and Schmidt, Michael A.: *Constraints on the charged currents in general neutrino interactions with sterile neutrinos*. *JHEP* **10** 115 (2020). [arXiv:2007.15408 \[hep-ph\]](#).
- E:** Langenbruch, Christoph, LHCb Collaboration: *Lepton flavour universality tests in rare $b \rightarrow s\ell\ell$ decays*. *18th International Conference on B-Physics at Frontier Machines*. *Proceedings of Science Beauty2019* **032** (2020).
- T:** Krishnamurthy, Suraj: *A frequentist analysis of the $n=3$ type-I seesaw model*. (2020).
- E:** Hirsch, Martin: *Neutrinos at colliders and lepton number violation*. *ALPS 2019 An Alpine LHC Physics Summit*. *Proceedings of Science ALPS2019* **015** (2020).
- T:** Gelmini, Graciela B. and Kawasaki, Masahiro and Kusenko, Alexander and Murai, Kai and Takhistov, Volodymyr: *Big Bang Nucleosynthesis constraints on sterile neutrino and lepton asymmetry of the Universe*. *JCAP* **09** 051 (2020). [IPMU 20-0051](#), [arXiv:2005.06721 \[hep-ph\]](#).
- E:** Crivellin, Andreas and Hoferichter, Martin: *β Decays as Sensitive Probes of Lepton Flavor Universality*. *Phys. Rev. Lett.* **125** 111801 (2020). [INT-PUB-20-005](#), [PSI-PR-20-02](#), [UZ-TH 05/20](#), [arXiv:2002.07184 \[hep-ph\]](#).
- E:** Coutinho, Antonio M. and Crivellin, Andreas and Manzari, Claudio Andrea: *Global Fit to Modified Neutrino Couplings and the Cabibbo-Angle Anomaly*. *Phys. Rev. Lett.* **125** 071802 (2020). [PSI-PR-19-26](#), [UZ-TH 53/19](#), [arXiv:1912.08823 \[hep-ph\]](#).
- E:** Coloma, Pilar and Hernández, Pilar and Muñoz, Víctor and Shoemaker, Ian M.: *New constraints on Heavy Neutral Leptons from Super-Kamiokande data*. *Eur. Phys. J. C* **80** 235 (2020). [arXiv:1911.09129 \[hep-ph\]](#).
- E:** Chrzaszcz, Marcin and Drewes, Marco and Gonzalo, Tomás E. and Harz, Julia and Krishnamurthy, Suraj and Weniger, Christoph: *A frequentist analysis of three right-handed neutrinos with GAMBIT*. *Eur. Phys. J. C* **80** 569 (2020). [gambit-physics-2019](#), [arXiv:1908.02302 \[hep-ph\]](#).
- T:** Marchevski, Radoslav Ivanov: *First measurement of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ decay with the NA62 experiment at CERN*. [doi:10.25358/openscience-3030](#) (2019).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Search for heavy neutrinos at CERN SPS*. (2019). [NuPhys2018-Kozhuharov](#), [arXiv:1904.09124 \[hep-ex\]](#).
- T:** Humair, Thibaud: *Testing lepton universality in penguin decays of beauty mesons using the LHCb detector*. (2019).
- E:** Graverini, Elena, ATLAS, CMS, LHCb Collaboration: *Flavour anomalies: a review*. *J. Phys. Conf. Ser.* **1137** 012025 (2019). [arXiv:1807.11373 \[hep-ex\]](#).
- E:** Dey, Biplab, LHCb Collaboration: *Lepton Flavor Universality tests in $b \rightarrow s\ell^+\ell^-$ decays at LHCb*. *The 39th International Conference on High Energy Physics*. *Proceedings of Science ICHEP2018* **069** (2019). [arXiv:1811.11309 \[hep-ex\]](#).
- T:** Da Molin, Giacomo: *Studio dell'universalità leptonica nei decadimenti semileptonici del B*. (2019).
- A:** Cenci, Patrizia, NA62 Collaboration: *Search for heavy neutral leptons with kaon experiments at CERN*. *J. Phys. Conf. Ser.* **1137** 012022 (2019).
- E:** Bryman, D. A. and Shrock, R.: *Improved Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* **100** 053006 (2019). [UBC-TRIUMF-Stony Brook preprint \(YITP-SB-2019-2\)](#), [arXiv:1904.06787 \[hep-ph\]](#).
- E:** Bryman, D. A. and Shrock, R.: *Constraints on Sterile Neutrinos in the MeV to GeV Mass Range*. *Phys. Rev. D* **100** 073011 (2019). [TRIUMF-UBC-Stony Brook preprint \(YITP-SB-2019-9\)](#), [arXiv:1909.11198 \[hep-ph\]](#).
- E:** Bifani, Simone and Descotes-Genon, Sébastien and Romero Vidal, Antonio and Schune, Marie-Hélène: *Review of Lepton Universality tests in B decays*. *J. Phys. G* **46** 023001 (2019). [arXiv:1809.06229 \[hep-ex\]](#).
- E:** Shimizu, Suguru, JPARC E36 Collaboration: *Measurement of the $\Gamma(K^+ \rightarrow e^+\nu)/\Gamma(K^+ \rightarrow \mu^+\nu)$ branching ratio using stopped positive kaons at J-PARC*. *XIV International Conference on Heavy Quarks and Leptons*. *Proceedings of Science HQL2018* **032** (2018).
- A:** Peruzzo, Letizia, NA48/2, NA62 Collaboration: *Search for heavy neutrinos at the NA48/2 and NA62 experiments at CERN*. *EPJ Web Conf.* **182** 02095 (2018).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Parkinson, C. J., NA62 Collaboration: *Search for heavy neutral lepton production in kaon decays*. (2018).
- A:** Marchevski, Radoslav and others, NA62 Collaboration: *K^{++} : first NA62 results*. (2018).
- E:** Lüth, Vera: *A Challenge to Lepton Universality in B Meson Decays*. *Hyperfine Interact.* **239** 59 (2018). [arXiv:1808.02587 \[hep-ex\]](#).
- E:** Langenbruch, Christoph, LHCb Collaboration: *Lepton Flavour Universality tests in B decays as a probe for New Physics*. (2018). [arXiv:1805.04370 \[hep-ex\]](#).
- E:** Ito, H. and others: *Performance check of the CsI(Tl) calorimeter for the J-PARC E36 experiment by observing e^+ from muon decay*. *Nucl. Instrum. Meth. A* **901** 1–5 (2018).

- T:** Gueter, Dario: *Non-Equilibrium Quantum Field Theory Applied to Testable Scenarios of Baryogenesis: Diffusion Constants during the Electroweak Phase Transition, Leptogenesis with GeV-Scale Right-Handed Neutrinos.* (2018).
- E:** Farzan, Y. and Tortola, M.: *Neutrino oscillations and Non-Standard Interactions.* *Front. in Phys.* **6** 10 (2018). [arXiv:1710.09360 \[hep-ph\]](#).
- A:** Cenci, Patrizia, NA62 Collaboration: *Searches for Heavy Neutrinos at the CERN SPS.* (2018). [arXiv:1804.08656 \[hep-ex\]](#).
- E:** Ceccucci, Augusto: *Review and Outlook on Kaon Physics.* *Acta Phys. Polon. B* **49** 1079–1086 (2018).
- E:** Bednyakov, V. A. and Russakovich, N. A.: *The Joint Institute for Nuclear Research in Experimental Physics of Elementary Particles.* *Phys. Part. Nucl.* **49** 331–373 (2018).
- E:** Abada, Asmaa and De Romeri, Valentina and Lucente, Michele and Teixeira, Ana M. and Toma, Takashi: *Effective Majorana mass matrix from tau and pseudoscalar meson lepton number violating decays.* *JHEP* **02** 169 (2018). LPT-Orsay-17-76, TUM-HEP-1115-17, CP3-17-52, [arXiv:1712.03984 \[hep-ph\]](#).
- E:** Yamanaka, Taku: *Rare kaon decay experiments.* *Flavor Physics and CP Violation. Proceedings of Science FPCP2016* **018** (2017).
- A:** Lazzeroni, Cristina and others, NA62 Collaboration: *Search for heavy neutrinos in $K^+ \rightarrow \mu^+ \nu_\mu$ decays.* *Phys. Lett. B* **772** 712–718 (2017). CERN-EP-2017-114, [arXiv:1705.07510 \[hep-ex\]](#).
- A:** Lurkin, N. and others, NA62 Collaboration: *Heavy neutrino searches and NA62 status.* (2017). [arXiv:1808.00827 \[hep-ex\]](#).
- A:** Maurice, E. and others, NA62, NA48/2 Collaboration: *Study of π^0 Dalitz decays in the NA62 and NA48/2 experiments.* *Nucl. Part. Phys. Proc.* **282-284** 106–110 (2017).
- A:** Lazzeroni, C. and others, NA62 Collaboration: *Measurement of the π^0 electromagnetic transition form factor slope.* *Phys. Lett. B* **768** 38–45 (2017). CERN-EP-2016-323, [arXiv:1612.08162 \[hep-ex\]](#).
- A:** Massri, Karim: *New limits on heavy neutrinos from Kaon experiments at CERN.* *Nuovo Cim. C* **40** 170 (2017). [arXiv:1706.03553 \[hep-ex\]](#).
- E:** Masiero, A. and Paradisi, P.: *Exploring the flavour mystery with Roberto.* *Nuovo Cim. C* **40** 154 (2017).
- A:** Marchevski, Radoslav, NA62 Collaboration: *NA48/62 latest results.* *The 15th International Conference on Flavor Physics & CP Violation. Proceedings of Science FPCP2017* **004** (2017).
- T:** Marcano Imaz, Xabier: *Lepton flavor violation from low scale seesaw neutrinos with masses reachable at the LHC.* [doi:10.1007/978-3-319-94604-7](#) (2017). [arXiv:1710.08032 \[hep-ph\]](#).
- T:** Lurkin, Nicolas: *Neutral pion transition form factor measurement and run control at the NA62 experiment.* (2017).
- A:** Lurkin, Nicolas: *Recent results from NA48/2 and NA62 experiments at CERN.* *XIII International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2016* **033** (2017). POS(HQL-2016)033, [arXiv:1701.06979 \[hep-ex\]](#).
- E:** Lu, Haiyun, E36 Collaboration: *Status of the E36 Experiment at J-PARC.* *XIII International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2016* **036** (2017).
- A:** Koval, Michal, NA62 Collaboration: *New limits on heavy neutrino from NA62.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017* **116** (2017).
- A:** Kholodenko, Sergey, NA62 Collaboration: *New limits on heavy neutrino from NA62.* *J. Phys. Conf. Ser.* **934** 012002 (2017).
- A:** Goudzovski, Evgueni, NA48/2, NA62 Collaboration: *Neutral pion form factor measurement at NA62.* *38th International Conference on High Energy Physics. Proceedings of Science ICHEP2016* **642** (2017). [arXiv:1611.04972 \[hep-ex\]](#).
- E:** Bernlochner, Florian U. and others, GAMBIT Flavour Workgroup Collaboration: *FlavBit: A GAMBIT module for computing flavour observables and likelihoods.* *Eur. Phys. J. C* **77** 786 (2017). NORDITA-2017-077, CERN-TH-2017-167, NORDITA 2017-077, gambit-code-2017, [arXiv:1705.07933 \[hep-ph\]](#).
- A:** Gamberini, Enrico, NA62 Collaboration: *The Neutral Pion Form Factor at the NA62 Experiment.* *JPS Conf. Proc.* **13** 020035 (2017).
- E:** Drewes, Marco and Garbrecht, Bjorn and Gueter, Dario and Klaric, Juraj: *Testing the low scale seesaw and leptogenesis.* *JHEP* **08** 018 (2017). TUM-HEP-1062-16, [arXiv:1609.09069 \[hep-ph\]](#).
- E:** Drewes, Marco and Garbrecht, Björn: *Combining experimental and cosmological constraints on heavy neutrinos.* *Nucl. Phys. B* **921** 250–315 (2017). TUM-HEP-979-15, [arXiv:1502.00477 \[hep-ph\]](#).
- E:** De Romeri, V. and Herrero, M. J. and Marcano, X. and Scarcella, F.: *Lepton flavor violating Z decays: A promising window to low scale seesaw neutrinos.* *Phys. Rev. D* **95** 075028 (2017). IFT-UAM-CSIC-16-064, FTUAM-16-27, [arXiv:1607.05257 \[hep-ph\]](#).
- E:** Ciezarek, Gregory and Franco Sevilla, Manuel and Hamilton, P. M. and Kowalewski, Robert and Kuhr, Thomas and Lüth, Vera and Sato, Yutaro: *A Challenge to Lepton Universality in B Meson Decays.* *Nature* **546** 227–233 (2017). [arXiv:1703.01766 \[hep-ex\]](#).
- E:** Bianchin, Sébastien, TREK/E36 Collaboration: *Precise measurement of the $K_{e2}/K_{\mu2}$ branching ratio and search for new physics beyond the Standard Model.* *J. Phys. Conf. Ser.* **800** 012017 (2017). [arXiv:1611.02719 \[nucl-ex\]](#).

- E:** Bednyakov, V. A. and Rusakovich, N. A.: *Объединенный институт ядерных исследований в экспериментальной физике элементарных частиц.* (2017). P1-2017-14.
- E:** Bakhti, Pouya and Farzan, Yasaman: *Constraining secret gauge interactions of neutrinos by meson decays.* *Phys. Rev. D* **95** 095008 (2017). [arXiv:1702.04187 \[hep-ph\]](#).
- E:** Aaboud, Morad and others, ATLAS Collaboration: *Precision measurement and interpretation of inclusive W^+ , W^- and Z/γ^* production cross sections with the ATLAS detector.* *Eur. Phys. J. C* **77** 367 (2017). CERN-EP-2016-272, [arXiv:1612.03016 \[hep-ex\]](#).
- A:** Aliberti, Riccardo: *The NA62 hadron calorimeter.* *J. Phys. Conf. Ser.* **928** 012009 (2017).
- E:** Abada, A. and De Romeri, V. and Orloff, J. and Teixeira, A. M.: *In-flight cLFV conversion: $e - \mu$, $e - \tau$ and $\mu - \tau$ in minimal extensions of the standard model with sterile fermions.* *Eur. Phys. J. C* **77** 304 (2017). LPT-ORSAY-16-86, PCCF-RI-16-08, IFT-UAM-CSIC-16-138, FTUAM-16-47, [arXiv:1612.05548 \[hep-ph\]](#).
- A:** Venditti, Stefano, NA62 Collaboration: *The NA62 experiment at CERN.* *Hyperfine Interact.* **237** 126 (2016).
- A:** Ruggiero, G., NA62 Collaboration: 0 *Form Factor and K^{++} at NA62.* (2016).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **40** 100001 (2016).
- T:** Newson, Francis: *Kaon identification and the search for heavy neutrinos at NA62.* (2016). CERN-THESIS-2016-013.
- A:** Lamanna, G., NA48/2, NA62 Collaboration: *Precision tests of the Standard Model with Kaon decays at CERN.* *Nucl. Part. Phys. Proc.* **273-275** 1671–1677 (2016).
- A:** Koval, M., NA62 Collaboration: *Results and perspectives from the NA62 experiment at CERN.* *Nuovo Cim. C* **39** 322 (2016).
- E:** Kohl, Michael, TREK/E36 Collaboration: *TREK@J-PARC Beyond the Standard Model with Stopped K^+ .* (2016).
- E:** Goudzovski, Evgueni: *Kaon experiments at CERN: recent results and prospects.* *EPJ Web Conf.* **130** 01019 (2016). [arXiv:1609.02952 \[hep-ex\]](#).
- E:** Fajfer, Svjetlana and Košnik, Nejc: *Vector leptoquark resolution of R_K and $R_{D^{(*)}}$ puzzles.* *Phys. Lett. B* **755** 270–274 (2016). [arXiv:1511.06024 \[hep-ph\]](#).
- E:** Doršner, I. and Fajfer, S. and Greljo, A. and Kamenik, J. F. and Košnik, N.: *Physics of leptoquarks in precision experiments and at particle colliders.* *Phys. Rept.* **641** 1–68 (2016). [arXiv:1603.04993 \[hep-ph\]](#).
- A:** Cenci, Patrizia, NA62 Collaboration: *The neutral pion form factor at NA62.* *J. Phys. Conf. Ser.* **770** 012035 (2016).
- A:** Ceccucci, A. and Goudzovski, E. and Kekelidze, V. and Madigozhin, D. and Potrebenikov, I.: *Kaon decay studies at CERN SPS in the last decades.* *Phys. Part. Nucl.* **47** 567–590 (2016).
- A:** Bizzeti, Andrea, NA62 Collaboration: *Recent results and prospects from NA62.* *EPJ Web Conf.* **129** 00046 (2016).
- E:** Augé, Etienne and Dumarchez, Jacques and Trần Thanh Vân, Jean (Eds.): *Proceedings, 51st Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 12-19, 2016.* (2016).
- E:** Amaryan, M. and Chudakov, E. and Meyer, C. and Pennington, M. and Ritman, J. and Strakovsky, I. (Eds.): *Mini-Proceedings: Workshop on Physics with Neutral Kaon Beam at JLab (KL2016): Newport News, VA, USA, February 1-3, 2016.* (2016). [arXiv:1604.02141 \[hep-ph\]](#).
- A:** Aliberti, Riccardo, NA62 Collaboration: *Recent results from the NA62 experiment at CERN. XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2016* 118 (2016).
- E:** Abada, A. and De Romeri, V. and Teixeira, A. M.: *Impact of sterile neutrinos on nuclear-assisted cLFV processes.* *JHEP* **02** 083 (2016). LPT-ORSAY-15-71, PCCF-RI-15-03, [arXiv:1510.06657 \[hep-ph\]](#).
- A:** Sozzi, Marco S.: *Kaon physics: status and perspectives.* *The 15th International Conference on B-Physics at Frontier Machines at the University of Edinburgh. Proceedings of Science Beauty2014* 040 (2015).
- E:** Shimizu, Suguru, J-PARC E36 Collaboration: *Precise $\Gamma(K^+ \rightarrow e^+\nu)/\Gamma(K^+ \rightarrow \mu^+\nu)$ Measurement Using Stopped Positive Kaons at J-PARC.* *JPS Conf. Proc.* **8** 024009 (2015).
- A:** Piandani, Roberto, NA48/2, NA62 Collaboration: *ChPT test at NA48 and NA62 experiment at CERN.* *Nucl. Part. Phys. Proc.* **258-259** 75–79 (2015).
- A:** Pepe, Monica, NA62 Collaboration: *Rare and forbidden kaon decays at NA62.* *EPJ Web Conf.* **95** 03029 (2015).
- E:** Nanjo, Hajime: *Kaon Decay Experiments at J-PARC.* *JPS Conf. Proc.* **8** 024011 (2015).
- A:** Mirra, M., NA62 Collaboration: *Results and prospects on kaon physics with the NA62 experiment at CERN.* *Nuovo Cim. C* **38** 13 (2015).
- A:** Massri, Karim, NA48/2 Collaboration: *Precision tests of the Standard Model with Kaon decays at CERN.* *J. Phys. Conf. Ser.* **631** 012040 (2015).
- A:** Bizzeti, Andrea, NA48/2, NA62 Collaboration: *Rare Kaon Decays at NA48 and NA62.* [doi:10.1142/9789814663618%5F0059](#) (2015).
- E:** Asaka, Takehiko and Eijima, Shintaro and Takeda, Kazuhiro: *Probing Baryon Asymmetry of the Universe by Using Lepton Universality.* (2015). [arXiv:1506.00417 \[hep-ph\]](#).
- E:** Asaka, Takehiko and Eijima, Shintaro and Takeda, Kazuhiro: *Lepton Universality in the ν MSM.* *Phys. Lett. B* **742** 303–309 (2015). [arXiv:1410.0432 \[hep-ph\]](#).

- E:** Anzivino, Giuseppina: *Review of Kaon Physics at CERN and in Europe*. *JPS Conf. Proc.* **8** 024010 (2015).
- E:** Andreazza, A. and others: *What Next: White Paper of the INFN-CSN1*. (2015).
- E:** Abada, A. and De Romeri, V. and Monteil, S. and Orloff, J. and Teixeira, A. M.: *Indirect searches for sterile neutrinos at a high-luminosity Z-factory*. *JHEP* **04** 051 (2015). LPT-Orsay-14-78, PCCF-RI-14-07, [arXiv:1412.6322 \[hep-ph\]](#).
- E:** Yamanaka, Taku: *Current and Future Kaon Experiments*. (2014). [arXiv:1412.5919 \[hep-ex\]](#).
- A:** Venditti, Stefano: *Prospects for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ observation at CERN*. *EPJ Web Conf.* **73** 07001 (2014).
- E:** Strauch, Steffen, TREK Collaboration: *Searches for New Physics with the TREK Detector*. *XIIIth International Conference on Heavy Quarks & Leptons 2014*. *Proceedings of Science HQL2014* 025 (2014).
- A:** Spadaro, Tommaso, NA62 Collaboration: *Precision Tests of the Standard Model with Kaon Decays at CERN*. [doi:10.3204/DESY-PROC-2014-04/14](#) (2014).
- A:** Romano, A.: *Lepton flavour universality and conservation tests in Kaon decays at CERN*. *EPJ Web Conf.* **73** 07013 (2014).
- E:** Pich, Antonio: *Theoretical overview of kaon decays*. *J. Phys. Conf. Ser.* **556** 012045 (2014). IFIC-14-67, FTUV-14-1014, [arXiv:1410.3783 \[hep-ph\]](#).
- E:** Pich, Antonio: *Precision Tau Physics*. *Prog. Part. Nucl. Phys.* **75** 41–85 (2014). IFIC-13-79, FTUV-13-1029, FTUV-13-1028, [arXiv:1310.7922 \[hep-ph\]](#).
- A:** Petrov, Plamen, NA48/2, NA62 Collaboration: *Measurement of the rare decay $K^\pm \rightarrow \pi^\pm \gamma \gamma$* . *XXII. International Workshop on Deep-Inelastic Scattering and Related Subjects*. *Proceedings of Science DIS2014* 166 (2014).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- A:** Parkinson, Chris, NA62 Collaboration: *Precision tests of the Standard Model with kaon decays at CERN*. *XIIth International Conference on Heavy Quarks & Leptons 2014*. *Proceedings of Science HQL2014* 027 (2014).
- T:** Nišandžić, Ivan: *Beyond the Standard model effects in semileptonic heavy meson decays : doctoral thesis*. (2014).
- A:** Newson, Francis and others: *Prospects for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at CERN in NA62*. (2014). [arXiv:1411.0109 \[hep-ex\]](#).
- A:** Lazzeroni, C. and others, NA62 Collaboration: *Study of the $K^\pm \rightarrow \pi^\pm \gamma \gamma$ decay by the NA62 experiment*. *Phys. Lett. B* **732** 65–74 (2014). CERN-PH-EP-2014-025, [arXiv:1402.4334 \[hep-ex\]](#).
- E:** Batley, J. R. and others, NA48/2 Collaboration: *Detailed study of the $K^\pm \rightarrow \pi^0 \pi^0 e^\pm \nu$ (K_{e4}^{00}) decay properties*. *JHEP* **08** 159 (2014). CERN-PH-EP-2014-145, [arXiv:1406.4749 \[hep-ex\]](#).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *NA62 experiment at CERN SPS*. *EPJ Web Conf.* **80** 00003 (2014). [arXiv:1412.0240 \[hep-ex\]](#).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Measurement of the ratio of the charged kaon leptonic decays at NA62*. *Int. J. Mod. Phys. Conf. Ser.* **35** 1460436 (2014). [arXiv:1412.0243 \[hep-ex\]](#).
- A:** Goudzovski, Evgueni, NA62 Collaboration: *Rare Kaon Decay Experiments at CERN*. *Nucl. Phys. B Proc. Suppl.* **248-250** 58–63 (2014). [arXiv:1310.0231 \[hep-ex\]](#).
- A:** Gonnella, Francesco, NA48/2, NA62 Collaboration: *ChPT tests at NA48 and NA62*. *EPJ Web Conf.* **81** 03005 (2014).
- A:** Duk, Viacheslav, NA62 Collaboration: *LFV and exotics at the NA62 experiment*. *J. Phys. Conf. Ser.* **556** 012067 (2014).
- E:** Djalali, C., TREK Collaboration: *Searches for New Physics with the TREK Detector*. *J. Phys. Conf. Ser.* **556** 012068 (2014).
- A:** Costantini, Flavio, NA62- $\$R_K$ Collaboration: *Chiral Perturbation Theory tests at NA48 and NA62- \mathbf{R}_K experiments at CERN*. [doi:10.3204/DESY-PROC-2014-04/16](#) (2014).
- A:** Cenci, Patrizia: *Rare Kaon Decays with NA48/2 and NA62 at CERN*. *Int. J. Mod. Phys. Conf. Ser.* **31** 1460308 (2014). [arXiv:1403.2191 \[hep-ex\]](#).
- A:** Cassese, Antonio: *Study of the rare decay K* . *EPJ Web Conf.* **73** 03013 (2014).
- E:** Blum, Kfir and Hook, Anson and Murase, Kohta: *High energy neutrino telescopes as a probe of the neutrino mass mechanism*. (2014). [arXiv:1408.3799 \[hep-ph\]](#).
- E:** Abada, A. and De Romeri, V. and Teixeira, A. M.: *Effect of sterile states on lepton magnetic moments and neutrinoless double beta decay*. *JHEP* **09** 074 (2014). [arXiv:1406.6978 \[hep-ph\]](#).
- E:** Abada, A. and Teixeira, A. M. and Vicente, A. and Weiland, C.: *Sterile neutrinos in leptonic and semileptonic decays*. *JHEP* **02** 091 (2014). LPT-ORSAY-13-54, PCCF-RI-13-05, IFT-UAM-CSIC-13-118, FTUAM-13-31, [arXiv:1311.2830 \[hep-ph\]](#).
- E:** Worcester, E. T., ORKA Collaboration: *ORKA, The Golden Kaon Experiment: Precision measurement of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and other rare processes*. *2013 Kaon Physics International Conference*. *Proceedings of Science KAON13* 035 (2013). BNL-101012-2013-JA, [arXiv:1305.7245 \[hep-ex\]](#).
- E:** Weiland, Cedric: *Lepton universality in kaon decays*. (2013). LPT-ORSAY-13-105, [arXiv:1306.2894 \[hep-ph\]](#).
- T:** Weiland, Cédric: *Effects of fermionic singlet neutrinos on high- and low-energy observables*. (2013). tel-00922999, 2013PA112118, [arXiv:1311.5860 \[hep-ph\]](#).

- E: Strauch, Steffen, TREK Collaboration: *Searches for New Physics with the TREK Detector*. 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 014](#) (2013).
- E: Sciascia, Barbara: *The “wrong flavor” - topics on Kaon physics*. 14th International Conference on B-Physics at Hadron Machines. [Proceedings of Science Beauty2013 052](#) (2013).
- A: Ruggiero, Giuseppe, NA62 Collaboration: *The NA62 Experiment: Prospects for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Measurement*. 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 032](#) (2013).
- A: Ruggiero, Giuseppe, NA62 Collaboration: *R_K Measurement with NA62 at CERN SPS*. 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 012](#) (2013).
- A: Raggi, M., NA48/2 Collaboration: *High Precision Measurement of the Form Factors of the Semileptonic Decays $K^\pm \rightarrow \pi^0 l^\pm \nu$ at NA48/2*. 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 017](#) (2013).
- A: Podolsky, Sergey, NA62 Collaboration: *Lepton flavour universality and lepton flavour conservation tests at CERN. The XXI International Workshop High Energy Physics and Quantum Field Theory*. [Proceedings of Science QFTHEP2013 034](#) (2013).
- A: Lazzeroni, Cristina, NA62 Collaboration: *Study of the rare decay $K^\pm \rightarrow \pi^\pm \gamma \gamma$* . 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 030](#) (2013).
- A: Goudzovski, Evgueni, NA48/2, NA62 Collaboration: *Rare kaon decays (NA48/2 and NA62)*. [The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2013 426](#) (2013). [POS\(EPS-HEP-2013\)426](#), [PoS\(EPS-HEP 2013\)426](#), [arXiv:1311.1768 \[hep-ex\]](#).
- T: Gallorini, Stefano: *Study of the $K^+ \rightarrow e^+ \nu_e \gamma$ decay with the NA62 experiment*. (2013). CERN-THESIS-2013-305.
- A: Fantechi, Riccardo, NA48/2, NA62 Collaboration: *Study of leptonic and semileptonic kaon decays at CERN*. [The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2013 345](#) (2013).
- T: Di Filippo, Domenico: *The Charged anti-counter for the NA62 experiment at CERN SPS*. (2013). CERN-THESIS-2013-375.
- E: Di Domenico, Antonio: *Testing discrete symmetries with kaons: status and perspectives*. [J. Phys. Conf. Ser. 447 012008](#) (2013).
- E: Blanke, Monika: *New Physics Signatures in Kaon Decays*. 2013 Kaon Physics International Conference. [Proceedings of Science KAON13 010](#) (2013). [arXiv:1305.5671 \[hep-ph\]](#).
- A: Ambrosino, Fabio, NA48/2, NA62 Collaboration: *Recent results and prospects on kaon physics at CERN*. [Nucl. Phys. B Proc. Suppl. 245 223–230](#) (2013).
61. Bock, P. and Engelfried, J. and Friedrich, T. and Heintze, J. and Lennert, P. and Russ, M. and Zimmer, M.: *Signal propagation in long wire chambers*. [JINST 7 P09003](#) (2012).
- 1 Citation:
- E: Kolanoski, Hermann and Wermes, Norbert: *Teilchendetektoren. Grundlagen und Anwendungen*. [doi:10.1007/978-3-662-45350-6](#) (2016).
60. Lazzeroni, C. and others, NA62 Collaboration: *Test of lepton flavour universality in $K^+ \rightarrow \ell^+ \nu$ decays*. [Phys. Lett. B 698 105–114](#) (2011). [arXiv:1101.4805 \[hep-ex\]](#).
- 77 Citations:
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. [Phys. Rev. D 110 030001](#) (2024).
- E: Aloni, Daniel and Dery, Avital: *Revisiting leptonic nonunitarity*. [Phys. Rev. D 109 055006](#) (2024). [arXiv:2211.09638 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2022 083C01](#) (2022).
- T: Miranda, Álex: *Effective field theory analyses of low-energy precision probes in the search for new physics*. (2022).
- T: Swallow, Joel Christopher: *Searches for rare and forbidden kaon decays at the NA62 experiment at CERN*. (2021).
- T: Peruzzo, Letizia: *Search for $\pi^0 \rightarrow$ invisible decays with the NA62 experiment*. [doi:10.25358/openscience-5911](#) (2021).
- E: Lyu, Kun-Feng and Stamou, Emmanuel and Wang, Lian-Tao: *Self-interacting neutrinos: Solution to Hubble tension versus experimental constraints*. [Phys. Rev. D 103 015004](#) (2021). [arXiv:2004.10868 \[hep-ph\]](#).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2020 083C01](#) (2020).
- E: Athar, M. Sajjad and Singh, S. K.: *The Physics of Neutrino Interactions*. [doi:10.1017/9781108489065](#) (2020).
- E: Dam, Mogens: *Tau-lepton Physics at the FCC-ee circular e^+e^- Collider*. [SciPost Phys. Proc. 1 041](#) (2019). [arXiv:1811.09408 \[hep-ex\]](#).
- T: Cuen-Rochin, Saul: *Precise Measurement of Rare Pion Decay*. [doi:10.14288/1.0378447](#) (2019).

- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- A:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Search for heavy neutral lepton production in K^+ decays*. *Phys. Lett. B* **778** 137–145 (2018). CERN-EP-2017-311, [arXiv:1712.00297 \[hep-ex\]](#).
- A:** Lamanna, Gianluca, NA62 Collaboration: *NA62 and NA48/2 results on search for Heavy Neutral Leptons*. *EPJ Web Conf.* **179** 01009 (2018).
- E:** Bednyakov, V. A. and Russakovich, N. A.: *The Joint Institute for Nuclear Research in Experimental Physics of Elementary Particles*. *Phys. Part. Nucl.* **49** 331–373 (2018).
- T:** Vormstein, Mario Christian: *Measurement of the branching fractions of semileptonic kaon decays and extraction of the CKM parameter $|V_{us}|$* . [doi:10.25358/openscience-3304](#) (2017).
- T:** Sullivan, Tristan: *A high-precision measurement of the pion branching ratio*. [doi:10.14288/1.0343655](#) (2017).
- A:** Lazzeroni, Cristina and others, NA62 Collaboration: *Search for heavy neutrinos in $K^+ \rightarrow \mu^+ \nu_\mu$ decays*. *Phys. Lett. B* **772** 712–718 (2017). CERN-EP-2017-114, [arXiv:1705.07510 \[hep-ex\]](#).
- A:** Lurkin, N. and others, NA62 Collaboration: *Heavy neutrino searches and NA62 status*. (2017). [arXiv:1808.00827 \[hep-ex\]](#).
- A:** Goudzovski, Evgueni, NA48/2, NA62 Collaboration: *Neutral pion form factor measurement at NA62*. *38th International Conference on High Energy Physics. Proceedings of Science ICHEP2016* **642** (2017). [arXiv:1611.04972 \[hep-ex\]](#).
- A:** Gamberini, Enrico, NA62 Collaboration: *The Neutral Pion Form Factor at the NA62 Experiment*. *JPS Conf. Proc.* **13** 020035 (2017).
- E:** Bednyakov, V. A. and Rusakovich, N. A.: *Объединенный институт ядерных исследований в экспериментальной физике элементарных частиц*. (2017). P1-2017-14.
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- T:** Newson, Francis: *Kaon identification and the search for heavy neutrinos at NA62*. (2016). CERN-THESIS-2016-013.
- A:** Koval, M., NA62 Collaboration: *Results and perspectives from the NA62 experiment at CERN*. *Nuovo Cim. C* **39** 322 (2016).
- A:** Pepe, Monica, NA62 Collaboration: *Rare and forbidden kaon decays at NA62*. *EPJ Web Conf.* **95** 03029 (2015).
- E:** Ito, S. and others: *Status of the PIENU experiment at TRIUMF*. *J. Phys. Conf. Ser.* **631** 012044 (2015).
- E:** Ishiwata, Koji and Ligeti, Zoltan and Wise, Mark B.: *New Vector-Like Fermions and Flavor Physics*. *JHEP* **10** 027 (2015). CALT-TH-2015-029, KANAZAWA-15-07, [arXiv:1506.03484 \[hep-ph\]](#).
- E:** Asaka, Takehiko and Eijima, Shintaro and Takeda, Kazuhiro: *Probing Baryon Asymmetry of the Universe by Using Lepton Universality*. (2015). [arXiv:1506.00417 \[hep-ph\]](#).
- E:** Asaka, Takehiko and Eijima, Shintaro and Takeda, Kazuhiro: *Lepton Universality in the ν MSM*. *Phys. Lett. B* **742** 303–309 (2015). [arXiv:1410.0432 \[hep-ph\]](#).
- E:** Anzivino, Giuseppina: *Review of Kaon Physics at CERN and in Europe*. *JPS Conf. Proc.* **8** 024010 (2015).
- E:** Strauch, Steffen, TREK Collaboration: *Searches for New Physics with the TREK Detector. XIIth International Conference on Heavy Quarks & Leptons 2014. Proceedings of Science HQL2014* **025** (2014).
- E:** Severijns, N.: *Correlation and spectrum shape measurements in β -decay probing the standard model*. *J. Phys. G* **41** 114006 (2014).
- E:** Pich, Antonio: *Precision Tau Physics*. *Prog. Part. Nucl. Phys.* **75** 41–85 (2014). IFIC-13-79, FTUV-13-1029, FTUV-13-1028, [arXiv:1310.7922 \[hep-ph\]](#).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *NA62 experiment at CERN SPS*. *EPJ Web Conf.* **80** 00003 (2014). [arXiv:1412.0240 \[hep-ex\]](#).
- A:** Kozhuharov, Venelin, NA62 Collaboration: *Measurement of the ratio of the charged kaon leptonic decays at NA62*. *Int. J. Mod. Phys. Conf. Ser.* **35** 1460436 (2014). [arXiv:1412.0243 \[hep-ex\]](#).
- A:** Fantechi, Riccardo, NA62 Collaboration: *The NA62 experiment at CERN: status and perspectives*. (2014). [arXiv:1407.8213 \[physics.ins-det\]](#).
- E:** Strauch, Steffen, TREK Collaboration: *Searches for New Physics with the TREK Detector. 2013 Kaon Physics International Conference. Proceedings of Science KAON13* **014** (2013).
- E:** Severijns, N. and Naviliat-Cuncic, O.: *Structure and symmetries of the weak interaction in nuclear beta decay*. *Phys. Scripta T* **152** 014018 (2013).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *R_K Measurement with NA62 at CERN SPS. 2013 Kaon Physics International Conference. Proceedings of Science KAON13* **012** (2013).
- T:** Romano, Angela: *Leptonic decays and kaon identification at the NA62 experiment at CERN*. (2013). CERN-THESIS-2012-389.

- A: Podolsky, Sergey, NA62 Collaboration: *Lepton flavour universality and lepton flavour conservation tests at CERN. The XXI International Workshop High Energy Physics and Quantum Field Theory. Proceedings of Science QFTHEP2013 034* (2013).
- A: Podolsky, Sergey, NA62 Collaboration: *Lepton flavour universality and lepton flavour conservation tests in kaon decays at CERN. XXI International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2013 126* (2013).
- E: Pich, Antonio: *Flavour Physics and CP Violation. doi:10.5170/CERN-2013-003.119* (2013). IFIC-11-28, FTUV-11-1217, [arXiv:1112.4094 \[hep-ph\]](#).
- A: Lazzeroni, C. and others, NA62 Collaboration: *Precision Measurement of the Ratio of the Charged Kaon Leptonic Decay Rates. Phys. Lett. B 719 326–336* (2013). CERN-PH-EP-2012-367, [arXiv:1212.4012 \[hep-ex\]](#).
- A: Moulson, Matthew, NA62 Collaboration: *Forbidden Kaon and Pion Decays in NA62. 2013 Kaon Physics International Conference. Proceedings of Science KAON13 013* (2013). [arXiv:1306.3361 \[hep-ex\]](#).
- A: Moulson, Matthew: *Testing the Standard Model with Kaon Decays. AIP Conf. Proc. 1560 117–121* (2013). [arXiv:1209.3426 \[hep-ex\]](#).
- A: Kozhuharov, Venelin, NA62 Collaboration: *Rare K Decays: Present and perspectives with NA62. Nuovo Cim. C 036 187–194* (2013). [arXiv:1305.2840 \[hep-ex\]](#).
- T: Gallorini, Stefano: *Study of the $K^+ \rightarrow e^+ \nu_e \gamma$ decay with the NA62 experiment.* (2013). CERN-THESIS-2013-305.
- A: Fantechi, Riccardo, NA48/2, NA62 Collaboration: *Study of leptonic and semileptonic kaon decays at CERN. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2013 345* (2013).
- E: Cirigliano, Vincenzo and Gardner, Susan and Holstein, Barry: *Beta Decays and Non-Standard Interactions in the LHC Era. Prog. Part. Nucl. Phys. 71 93–118* (2013). [arXiv:1303.6953 \[hep-ph\]](#).
- E: Chen, Chian-Shu and Kephart, Thomas W. and Yuan, Tzu-Chiang: *Binary Icosahedral Flavor Symmetry for Four Generations of Quarks and Leptons. PTEP 2013 103B01* (2013). [arXiv:1110.6233 \[hep-ph\]](#).
- E: Bernstein, Robert H. and Cooper, Peter S.: *Charged Lepton Flavor Violation: An Experimenter’s Guide. Phys. Rept. 532 27–64* (2013). FERMILAB-PUB-13-259-PPD, [arXiv:1307.5787 \[hep-ex\]](#).
- A: Ambrosino, Fabio, NA48/2, NA62 Collaboration: *Recent results and prospects on kaon physics at CERN. Nucl. Phys. B Proc. Suppl. 245 223–230* (2013).
- A: Ruggiero, Giuseppe: *R_K and $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ with NA62 at CERN SPS.* (2012). [arXiv:1212.4998 \[hep-ex\]](#).
- E: Pich, Antonio: *Kaon Physics: Theory Overview. The XIth International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2012 019* (2012). IFIC-12-55, FTUV-12-0810, [arXiv:1208.2134 \[hep-ph\]](#).
- E: Pich, Antonio: *The Standard Model of Electroweak Interactions.* (2012). IFIC-11-73, FTUV-12-0102, [arXiv:1201.0537 \[hep-ph\]](#).
- E: Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP). Phys. Rev. D 86 010001* (2012). SLAC-REPRINT-2014-001.
- T: Malbrunot, Chloé: *Study of Pi plus $\rightarrow e$ plus Nu e decay. doi:10.14288/1.0072751* (2012).
- A: Lamanna, Gianluca, NA48/2 Collaboration: *High precision measurement of the form factors of the semileptonic decays $K^\pm \rightarrow \pi^0 l^\pm \nu$ ($Kl3$) in NA48/2. Proceedings of Science ConfinementX 243* (2012).
- E: Komatsubara, T. K.: *Experiments with K-Meson Decays. Prog. Part. Nucl. Phys. 67 995–1018* (2012). KEK-PREPRINT-2012-3, [arXiv:1203.6437 \[hep-ex\]](#).
- E: Kamenik, Jernej F. and Smith, Christopher: *FCNC portals to the dark sector. JHEP 03 090* (2012). [arXiv:1111.6402 \[hep-ph\]](#).
- A: Goudzovski, Evgueni: *Kaon experiments at CERN: NA48 and NA62. Nucl. Phys. B Proc. Suppl. 225-227 244–248* (2012). [arXiv:1112.5365 \[hep-ex\]](#).
- E: Giudice, G. F. and Paradisi, P. and Passera, M.: *Testing new physics with the electron $g-2$. JHEP 11 113* (2012). CERN-PH-TH-2012-017-a, [arXiv:1208.6583 \[hep-ph\]](#).
- E: Girrbach, Jennifer and Nierste, Ulrich: *$\Gamma(K \rightarrow e \nu)/\Gamma(K \rightarrow \mu \nu)$ in the Minimal Supersymmetric Standard Model.* (2012). TTP12-006, TUM-HEP-827-12, [arXiv:1202.4906 \[hep-ph\]](#).
- A: Fantechi, Riccardo, CERN-NA-48/2, CERN-NA-62 Collaboration: *Chiral perturbation theory tests. The XIth International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2012 014* (2012).
- E: Cirigliano, Vincenzo and Ecker, Gerhard and Neufeld, Helmut and Pich, Antonio and Portoles, Jorge: *Kaon Decays in the Standard Model. Rev. Mod. Phys. 84 399* (2012). FTUV-11-0729, IFIC-11-02, UWTHPH-2011-25, [arXiv:1107.6001 \[hep-ph\]](#).
- A: Cenci, Patrizia, NA62 Collaboration: *Status and latest results from the NA62 experiment at CERN. Nucl. Phys. B Proc. Suppl. 233 165–172* (2012).
- E: Spadaro, Tommaso and Young, Albert: *V_{ud} and V_{us} : CKM 2010 working group I summary.* (2011). [arXiv:1112.0238 \[hep-ex\]](#).
- A: Sozzi, Marco S.: *Kaon physics and discrete symmetries. Int. J. Mod. Phys. A 26 3967–3985* (2011).
- E: Shimizu, S., TREK Collaboration: *Test of lepton flavor universality by precise $\Gamma(K_{e2})/\Gamma(K_{\mu2})$ measurement using stopped positive kaons at J-PARC. AIP Conf. Proc. 1441 338-340* (2011).

- A: Ruggiero, Giuseppe: *New physics limits from kaon decays*. (2011). [arXiv:1107.0523 \[hep-ex\]](#).
- A: Lazzeroni, Cristina, NA62 Collaboration: *Lepton universality tests with leptonic kaon decays in NA62*. [AIP Conf.Proc. 1441 561-563](#) (2011).
- A: Goudzovski, Evgueni, NA48/2, NA62 Collaboration: *Kaon programme at CERN: recent results*. [XXIst International Europhysics Conference on High Energy Physics. Proceedings of Science EPS-HEP2011 181](#) (2011). [arXiv:1111.2818 \[hep-ex\]](#).
- A: Goudzovski, Evgueni: *Searches for lepton flavour and lepton number violation in kaon decays*. (2011). [arXiv:1105.5957 \[hep-ex\]](#).
- E: Djalali, Chaden, TREK Collaboration: *The TREK program at J-PARC*. [AIP Conf.Proc. 1423 297-302](#) (2011).
59. Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. [Nucl. Instrum. Meth. A 639 1-6](#) (2011). [arXiv:1009.0052 \[physics.ins-det\]](#).
- 18 Citations:
- E: He, Rui and others: *Advances in nuclear detection and readout techniques*. [Nucl. Sci. Tech. 34 205](#) (2023).
- T: Rosales-De-Leon, Alberto: *Photohadronic emission of VHE gamma rays in blazars and the CTA neutrino target of opportunity program*. (2022).
- T: Gizdov, Konstantin: *Studies of b Hadron decays to Charmonium, the LHCb upgrade and operation*. [doi:10.7488/era/2124](#) (2022).
- E: Ratcliff, Blair and Schwiening, Jochen: *Cherenkov Radiation*. [doi:10.1007/978-3-319-93785-4%5F18](#) (2021).
- A: Engelfried, Jürgen: *Handbook of Particle Detection and Imaging, 2.edition*. [doi:10.1007/978-3-319-93785-4%5F6](#) (2021).
- E: Papanestis, A.: *Cherenkov light imaging in particle and nuclear physics experiments*. [Nucl. Instrum. Meth. A 952 162004](#) (2020).
- T: Mathis, Andreas: *First Measurement of the Proton- $\Sigma 0$ Interaction via the Femtoscopy Method*. (2020).
- T: Bendarouach, Jordan and Höhne, C.: *Conception and design of a mirror alignment and control system for the Ring Imaging Cherenkov detector of the CBM experiment*. (2019). [GSI-2020-00374](#).
- E: Avrorin, A. D. and others: *Status of the Baikal-GVD Neutrino Telescope*. [EPJ Web Conf. 207 01003](#) (2019).
- T: Vejdani, Solmaz: *Particle-Identification Capability of the Straw Tube Tracker and Feasibility Studies for the Charmed-Baryon Program with PANDA*. (2018).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Phys. Rev. D 98 030001](#) (2018).
- E: Rose, Paul B. and Erickson, Anna S.: *Cherenkov detectors for spatial imaging applications using discrete-energy photons*. [Journal of Applied Physics 120 064903](#) (2016).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Chin. Phys. C 40 100001](#) (2016).
- E: Yoon, C. J. and others: *Time-of-Propagation Counter for the LEPS*. [IEEE Trans. Nucl. Sci. 61 2601-2607](#) (2014).
- T: Opitz, Björn Helmut Bastian: *Searches for dark matter self-annihilation signals from dwarf spheroidal galaxies and the Fornax galaxy cluster with imaging air Cherenkov telescopes*. (2014). [DESY-THESIS-2014-028](#).
- T: Kopfer, Jan Martin: *Development of a prototype camera and Monte Carlo studies for the optimisation of the CBM-RICH detector*. (2014). [GSI-2015-01310](#).
- E: Seitz, B. and Britting, A. and Cowie, E. and Eyrych, W. and Hoek, M. and Keri, T. and Lehmann, A. and Montgomery, R. and Uhlig, F.: *Photon Detection Systems for Modern Cherenkov Detectors*. [Phys. Procedia 37 796-799](#) (2012).
- A: Engelfried, Jürgen: *Particle identification*. [doi:10.1007/978-3-642-13271-1%5F6](#) (2012).
58. Cooper, Peter S. and Engelfried, Jurgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. [Nucl. Instrum. Meth. A 639 246-248](#) (2011). [arXiv:1008.4171 \[physics.ins-det\]](#).
57. Adams, T. and others: *Renaissance of the ~ 1 TeV Fixed-Target Program*. [Int. J. Mod. Phys. A 25 777-813](#) (2010). [arXiv:0905.3004 \[hep-ex\]](#).
- 8 Citations:
- E: Bjorken, J. D. and others: *Community Support for A Fixed-Target Programme for the LHC*. (2020).
- E: Brodsky, S. J. and Fleuret, F. and Hadjidakis, C. and Lansberg, J. P.: *Physics Opportunities of a Fixed-Target Experiment using the LHC Beams*. [Phys. Rept. 522 239-255](#) (2013). [SLAC-PUB-14878](#), [arXiv:1202.6585 \[hep-ph\]](#).
- E: Bonivento, W. and others: *Proposal to Search for Heavy Neutral Leptons at the SPS*. (2013). [CERN-SPSC-2013-024](#), [SPSC-EOI-010](#), [arXiv:1310.1762 \[hep-ex\]](#).

- E: Appel, Jeffrey A.: *CHARM 2010: Experiment Summary and Future Charm Facilities*. *Int. J. Mod. Phys. Conf. Ser.* **02** 209–213 (2011). FERMILAB-CONF-10-490-DI, [arXiv:1012.3490 \[hep-ex\]](#).
- T: Hussain, Talab: *Search for Decay Modes of Ω in $\psi(2s)$ Data*. (2010).
- E: de Gouvea, Andre and Saoulidou, Niki: *Fermilab’s intensity frontier*. *Ann. Rev. Nucl. Part. Sci.* **60** 513–538 (2010).
- E: Conrad, Janet and de Gouvea, Andre and Shalgar, Shashank and Spitz, Joshua: *Atmospheric Tau Neutrinos in a Multi-kiloton Liquid Argon Detector*. *Phys. Rev. D* **82** 093012 (2010). NUHEP-TH-10-11, [arXiv:1008.2984 \[hep-ph\]](#).
- E: Conrad, J. M.: *Neutrino Scattering at High Energies*. *AIP Conf. Proc.* **1222** 262–264 (2010).
56. Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* **64** 637–644 (2009). [arXiv:0902.0355 \[hep-ex\]](#).

11 Citations:

- E: Aleev, A. and others, SVD-2 Collaboration: *Charmed particles production in pA -interactions at $\sqrt{s} = 11.8$ GeV*. *Eur. Phys. J. A* **53** 45 (2017).
- E: Laha, Ranjan and Brodsky, Stanley J.: *IceCube can constrain the intrinsic charm of the proton*. *Phys. Rev. D* **96** 123002 (2017). SLAC-PUB-16771, [arXiv:1607.08240 \[hep-ph\]](#).
- E: Garzelli, M. V. and Moch, S. and Sigl, G.: *Lepton fluxes from atmospheric charm revisited*. *JHEP* **10** 115 (2015). DESY-15-107, MITP-15-049, [arXiv:1507.01570 \[hep-ph\]](#).
- E: Bhattacharya, Atri and Enberg, Rikard and Reno, Mary Hall and Sarcevic, Ina and Stasto, Anna: *Perturbative charm production and the prompt atmospheric neutrino flux in light of RHIC and LHC*. *JHEP* **06** 110 (2015). NORDITA-2015-9, [arXiv:1502.01076 \[hep-ph\]](#).
- T: Gascon Bravo, Alberto: *Heavy quark simulation and identification at the Pierre Auger observatory*. (2013).
- E: Scomparin, E.: *Latest results on charmonium and open charm at the CERN SPS*. *Nucl. Phys. A* **855** 388–391 (2011).
- E: Merino, C. and Pajares, C. and Ryzhinskiy, M. M. and Shabelski, Yu. M. and Shuvaev, A. G.: *Heavy Flavour Production in pp and Heavy Ion Collisions in QCD Up to LHC Energies*. *Phys. Atom. Nucl.* **73** 1781–1788 (2010). [Erratum: *Phys.Atom.Nucl.* **74**, 173 (2011)], [arXiv:0910.2364 \[hep-ph\]](#).
- E: Kopeliovich, B. Z. and Potashnikova, I. K. and Schmidt, Ivan: *Nuclear filtering of intrinsic charm*. *AIP Conf. Proc.* **1296** 231–237 (2010).
- E: Kopeliovich, B. Z. and Potashnikova, I. K. and Schmidt, Ivan: *Penetrating Intrinsic Charm: Evidence in Data*. (2010). USM-TH-258, [arXiv:1003.3673 \[hep-ph\]](#).
- E: Desiati, Paolo and Gaisser, Thomas K.: *Seasonal variation of atmospheric leptons as a probe of charm*. *Phys. Rev. Lett.* **105** 121102 (2010). [arXiv:1008.2211 \[astro-ph.HE\]](#).
- T: Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. doi:10.2172/969509 (2009). FERMILAB-THESIS-2009-43 .
55. Vazquez-Jauregui, E. and others, SELEX Collaboration: *First Observation of the Cabibbo-Suppressed Decays $\Xi_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$ and $\Xi_c^+ \rightarrow \Sigma^- \pi^+ \pi^+$ and Measurement of their Branching Ratios*. *Phys. Lett. B* **666** 299–304 (2008). [arXiv:0804.2298 \[hep-ex\]](#).

14 Citations:

- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E: Geng, Chao-Qiang and Liu, Chia-Wei and Liu, Sheng-Lin: *Nonleptonic three-body charmed baryon weak decays with $H(15)$* . *Phys. Rev. D* **109** 093002 (2024). [arXiv:2403.06469 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- E: Li, Y. B. and others, Belle Collaboration: *First measurements of absolute branching fractions of the Ξ_c^+ baryon at Belle*. *Phys. Rev. D* **100** 031101 (2019). KEK Preprint # 2019-3; Belle Preprint # 2019-05, KEK-Preprint-2019-3, Belle-Preprint-2019-05, [arXiv:1904.12093 \[hep-ex\]](#).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E: Jiang, Hua-Yu and Yu, Fu-Sheng: *Fragmentation-fraction ratio f_{Ξ_b}/f_{Λ_b} in b - and c -baryon decays*. *Eur. Phys. J. C* **78** 224 (2018). [arXiv:1802.02948 \[hep-ph\]](#).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E: Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).

- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Hyodo, Tetsuo and Oka, Makoto: *Determination of the $\pi\Sigma$ scattering lengths from the weak decays of Λ_c* . *Phys. Rev. C* **84** 035201 (2011). [arXiv:1105.5494 \[nucl-th\]](#).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- T:** Vazquez-Jauregui, Eric: *Measurement of Branching Ratios for Non-leptonic Cabibbo-suppressed Decays of the Charmed-Strange Baryon Ξ_c^+* . [doi:10.2172/937240](#) (2008). FERMILAB-THESIS-2008-40 .
54. Adamovich, M. I. and others, WA89 Collaboration: *Observation of a resonance in the $K(s)p$ decay channel at a mass of 1765 MeV/c**2*. *Eur. Phys. J. C* **50** 535–538 (2007). [arXiv:hep-ex/0702044](#).
- 5 Citations:
- T:** Lai, Alessandra: *Development of a Data Acquisition System for the Custom Front-End Prototypes of the PANDA Micro Vertex Detector and Study of the Reaction $\bar{p}p \rightarrow \Xi^- \bar{\Xi}^+ \pi^+ \pi^-$* . [doi:10.13154/294-6375](#) (2018).
- T:** Apostolou, Alexandros: *Particle-identification capability of the Straw Tube Tracker and feasibility studies for open-charm production with PANDA*. (2018).
- E:** Lutz, M. F. M. and others, PANDA Collaboration: *Physics Performance Report for PANDA: Strong Interaction Studies with Antiprotons*. (2009). [arXiv:0903.3905 \[hep-ex\]](#).
- A:** Siebert, H. W.: *The challenge of correlations in hadronic production of $V0$ $V0$ pairs*. *Eur. Phys. J. ST* **162** 155–159 (2008).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Production of $V0$ pairs in the hyperon experiment WA89*. *Eur. Phys. J. C* **52** 857–874 (2007).
53. Adamovich, M. I. and others, WA89 Collaboration: *Production of $V0$ pairs in the hyperon experiment WA89*. *Eur. Phys. J. C* **52** 857–874 (2007).
- 1 Citation:
- E:** Tarasov, V.V. and Varlamov, P.O.: *Strange Hadron Production in Σ^-A Interactions in the SELEX Experiment*. *Bull. Russian Academy of Sciences* **74** 485-463 (2010).
52. Adamovich, M. I. and others, WA89 Collaboration: *Search for the pentaquark candidate $\Theta(1540)^+$ in the hyperon beam experiment WA89*. *Phys. Rev. C* **72** 055201 (2005). [arXiv:hep-ex/0510013](#).
- 27 Citations:
- E:** Asratyan, A. E. and Matveev, V. A.: *Search for $\Theta^+(1540)$ emission in hadron–nucleus collisions at 400–700 GeV*. (2016). [arXiv:1608.08523 \[hep-ex\]](#).
- T:** Takahashi, Tomonori: *Search for Θ^+ pentaquark via the $\pi^p \rightarrow K^- X$ reaction using 1.92 GeV/c π beam at J-PARC*. [doi:10.15083/00072953](#) (2015).
- T:** Moritsu, Manabu: *Search for the Pentaquark Θ^+ via the $\pi^-p \rightarrow K^- X$ Reaction at J-PARC*. [doi:10.1007/978-981-10-0012-6](#) (2014).
- E:** Liu, Tianbo and Mao, Yajun and Ma, Bo-Qiang: *Present status on experimental search for pentaquarks*. *Int. J. Mod. Phys. A* **29** 1430020 (2014). [arXiv:1403.4455 \[hep-ex\]](#).
- E:** Naruki, M. and others: *Search for Pentaquark Θ^+ in Hadronic Reaction at J-PARC*. *Few Body Syst.* **54** 955–960 (2013).
- E:** Naruki, Megumi: *Hadron physics at J-PARC*. *PTEP* **2012** 02B013 (2012).
- T:** Samoylov, Oleg: *Charm dimuon cross-section and search for Pentaquark Θ^+ in neutrino-nucleon interactions in the NOMAD experiment*. (2011). CERN-THESIS-2011-399.
- E:** Naruki, M., J-PARC E19 Collaboration: *Status report of J-PARC E19*. *AIP Conf. Proc.* **1388** 412–415 (2011).
- E:** Naruki, Megumi: *Search for pentaquark Θ^+* . *Lect. Notes Phys.* **781** 139–160 (2009).
- T:** Sherwood, Daniel: *Search for the $R(3520)$ crypto-exotic state at BaBar*. (2008).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Molchatsky, L. S.: *Exotic decay modes of the nucleon resonance $N^*(1535)$ and the θ^+ problem*. (2008). [arXiv:0803.2936 \[hep-ph\]](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Observation of a resonance in the $K(s)p$ decay channel at a mass of 1765 MeV/c**2*. *Eur. Phys. J. C* **50** 535–538 (2007). [arXiv:hep-ex/0702044](#).

- E:** Pirjol, Dan and Schat, Carlos: *Positive parity pentaquark towers in large $N(c)$ QCD*. *Phys. Rev. D* **75** 076004 (2007). [arXiv:hep-ph/0612314](#).
- E:** Naryshkin, Yuri: *Measurement of transverse Lambda polarization in quasi-real photoproduction at HERMES*. doi:10.3204/proc07-01/95 (2007).
- E:** Achard, P. and others, L3 Collaboration: *Study of inclusive strange-baryon production and search for pentaquarks in two-photon collisions at LEP*. *Eur. Phys. J. C* **49** 395–410 (2007). CERN-PH-EP-2006-028, [arXiv:hep-ex/0609054](#).
- E:** Schumacher, Reinhard A.: *The Rise and fall of pentaquarks in experiments*. *AIP Conf. Proc.* **842** 409–417 (2006). [arXiv:nucl-ex/0512042](#).
- T:** Rubáček, Lukas: *Search for the Pentaquark states in Lepton-Nucleon Scattering at HERMES*. doi:10.3204/DESY-THESIS-2006-014 (2006). DESY-THESIS-2006-014.
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E:** Oh, Yongseok and Nakayama, K. and Lee, T. -S. H.: *Pentaquark $\Theta^+(1540)$ production in $\gamma N \rightarrow K$ anti- K N*. *Phys. Rept.* **423** 49–89 (2006). [arXiv:hep-ph/0412363](#).
- E:** Matsumura, H. and Suzuki, Y.: *Structure and decay width of Θ^+ in a one-gluon exchange model*. *Nucl. Phys. A* **772** 55–80 (2006). [arXiv:nucl-th/0601011](#).
- T:** Matheus, Ricardo D’Elia: *Partículas exóticas em regras de soma da QCD*. (2006).
- T:** Hyodo, Tetsuo: *Exotics in meson-baryon dynamics with chiral symmetry*. (2006).
- E:** De Vita, R. and others, CLAS Collaboration: *Search for the Θ^+ pentaquark in the reactions $\gamma p \rightarrow$ anti- $K^0 K^+ n$ and $\gamma p \rightarrow$ anti- $K^0 K^0 p$* . *Phys. Rev. D* **74** 032001 (2006). JLAB-PHY-06-544, [arXiv:hep-ex/0606062](#).
- E:** Burkert, Volker D.: *Have pentaquark states been seen?*. *Int. J. Mod. Phys. A* **21** 1764–1777 (2006). JLAB-PHY-05-442, [arXiv:hep-ph/0510309](#).
- T:** Berger-Hryn’ova, Tetiana: *Study of B Meson Decays to p anti-p h Final States*. (2006). UMI-32-09002, SLAC-R-810
- E:** Burkert, V. D.: *The status of pentaquark baryons*. (2005). JLAB-PHY-05-490.

51. Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^-* . *Phys. Lett. B* **628** 18–24 (2005). [arXiv:hep-ex/0406033](#).

418 Citations:

- E:** Zhao, Xue-Yun and Guo, Lei and Zheng, Xu-Chang and Bi, Huan-Yu and Wu, Xing-Gang and Ke, Qi-Wei: *Production of doubly heavy baryon at the Muon-Ion collider**. *Chin. Phys. C* **49** 053103 (2025). [arXiv:2503.02182 \[hep-ph\]](#).
- E:** Song, He and Xie, Jia-Qi and Liu, Xin-Ru and Chen, Jiao-Kai: *λ and ρ trajectories for the doubly heavy baryons in the diquark picture*. (2025). [arXiv:2502.12487 \[hep-ph\]](#).
- E:** Shekari Tousi, M. and Azizi, K.: *Semileptonic decays of doubly charmed (bottom) baryons to single heavy baryons*. (2025). [arXiv:2504.17030 \[hep-ph\]](#).
- E:** Pan, Ji-Hai and Pan, Ji-Si: *Study of the mass spectra of doubly heavy $\Xi_{QQ'}$ and $\Omega_{QQ'}$ baryons*. (2025). [arXiv:2502.01088 \[hep-ph\]](#).
- E:** Najjar, Z. Rajabi and Azizi, K.: *Investigation of triply heavy spin-3/2 baryons in their ground and excited states*. (2025). [arXiv:2504.06822 \[hep-ph\]](#).
- E:** Liu, Jiong-Jiong and Liu, Zhan-Wei and Ren, Xiu-Lei and Zhuge, Yu: *Chiral extrapolation of the doubly charmed baryons magnetic properties*. (2025). [arXiv:2503.19825 \[hep-ph\]](#).
- E:** Liang, Ze-Rui and Yi, Jing-Yu and Liu, Liuming and Yao, De-Liang: *ChPT and lattice QCD studies of doubly charmed baryons*. (2025). [arXiv:2504.04709 \[hep-ph\]](#).
- E:** Hu, Xiao-Hui and Zhou, Quan-Yu and Xing, Ye and Shi, Yu-Ji: *The strong coupling constants of doubly heavy baryons with heavy mesons*. (2025). [arXiv:2502.16561 \[hep-ph\]](#).
- E:** Aliev, T. M. and Askan, E. and Ozpineci, A.: *Multipole Moments of Double Heavy $J^P = \frac{3}{2}^+$ Baryons*. (2025). [arXiv:2504.10199 \[hep-ph\]](#).
- E:** Tousi, M. Shekari and Azizi, K. and Moshfegh, H. R.: *Investigation of the semileptonic decay $\Xi_{cc}^{++} \rightarrow \Xi_{cc}^+ \ell^+ \nu_\ell$ within QCD sum rules*. *Phys. Rev. D* **110** 114001 (2024). [arXiv:2409.00241 \[hep-ph\]](#).
- E:** Song, Qing-Fu and Lü, Qi-Fang and Hosaka, Atsushi: *Bottom-charmed baryons in a nonrelativistic quark model*. *Eur. Phys. J. C* **84** 89 (2024). [arXiv:2308.03261 \[hep-ph\]](#).
- E:** Shu, Ya-Li and Song, Qing-Fu and Lü, Qi-Fang: *Strong decays of P-wave doubly charmed and bottom baryons*. (2024). [arXiv:2408.11578 \[hep-ph\]](#).
- E:** Shekari Tousi, M. and Azizi, K.: *Properties of doubly heavy spin-1/2 baryons: The ground and excited states*. *Phys. Rev. D* **109** 054005 (2024). [arXiv:2401.07151 \[hep-ph\]](#).

- E: Patel, Kinjal and Thakkar, Kaushal: *Transition properties of Doubly Heavy Baryons*. (2024). [arXiv:2408.00335 \[hep-ph\]](#).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. **Phys. Rev. D** **110** 030001 (2024).
- E: Oudichhya, Juhi and Rai, Ajay Kumar: *Study of singly bottom and doubly heavy baryons within Regge phenomenology*. **Eur. Phys. J. A** **60** 125 (2024).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof: *Strong decay widths of S- and P-wave singly-, doubly- and triply-heavy charm and bottom baryons*. (2024). MSUHEP-24-018, [arXiv:2410.09622 \[hep-ph\]](#).
- E: Najjar, Z. Rajabi and Azizi, K. and Moshfegh, H. R.: *Properties of the ground and excited states of triply heavy spin-1/2 baryons*. **Eur. Phys. J. C** **84** 612 (2024). [arXiv:2402.14348 \[hep-ph\]](#).
- E: Ghaleynovi, Zahra and Sorkhi, Masoumeh Moazzen and Sovizi, Amir Hossein: *Quark Model Study of Doubly Heavy Ξ and Ω Baryons via Deep Neural Network and Hybrid Optimization*. (2024). [arXiv:2411.13091 \[hep-ph\]](#).
- E: Duan, Feng-Bo and Wang, Qi-Nan and Yang, Zi-Yan and Chen, Xu-Liang and Chen, Wei: *Doubly charmed pentaquark states in QCD sum rules*. **Phys. Rev. D** **109** 094018 (2024). [arXiv:2401.10078 \[hep-ph\]](#).
- E: Crede, Volker and Yelton, John: *70 years of hyperon spectroscopy: a review of strange Ξ , Ω baryons, and the spectrum of charmed and bottom baryons*. **Rept. Prog. Phys.** **87** 106301 (2024). [arXiv:2502.08815 \[hep-ex\]](#).
- E: Atangana Likéné, A. A. and Nga Ongodo, D. and Ahmadou, K. and Mah Tsila, P. and Ema'a Ema'a, J. M. and Ben-Bolie, G. H.: *Hypercentral quark model for mass spectra, semileptonic decays and Regge trajectories of doubly heavy Ξ baryons*. **Eur. Phys. J. Plus** **139** 942 (2024).
- E: Allaman, Héloïse and Ekhterachian, Majid and Nardi, Filippo and Rattazzi, Riccardo and Stelzl, Stefan: *Tetraquarks at large M and large N*. **JHEP** **11** 034 (2024). [arXiv:2407.18298 \[hep-ph\]](#).
- E: Zhan, Xi-Jie and Wu, Xing-Gang and Zheng, Xu-Chang: *Photoproduction of P-wave doubly charmed baryon at future e^+e^- collider*. **JHEP** **11** 029 (2023). [arXiv:2309.01316 \[hep-ph\]](#).
- E: Zhan, Xi-Jie and Wu, Xing-Gang and Zheng, Xu-Chang: *Photoproduction of doubly heavy baryons at future e^+e^- colliders*. **Phys. Rev. D** **108** 074030 (2023). [arXiv:2310.14315 \[hep-ph\]](#).
- E: Yu, Guo-Liang and Li, Zhen-Yu and Wang, Zhi-Gang and Lu, Jie and Yan, Meng: *Systematic analysis of doubly charmed baryons Ξ_{cc} and Ω_{cc}* . **Eur. Phys. J. A** **59** 126 (2023). [arXiv:2211.00510 \[hep-ph\]](#).
- E: Xing, Ye and Xu, Ji: *Searching for doubly charmed baryon from \bar{B}_c meson decays*. (2023). [arXiv:2311.12346 \[hep-ph\]](#).
- E: Tian, Hai-Jiang and Luo, Xuan and Fu, Hai-Bing: *Further study on the production of P-wave doubly heavy baryons from Z-boson decays*. **Phys. Lett. B** **847** 138302 (2023). [arXiv:2306.03388 \[hep-ph\]](#).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof: *Masses and radiative decay widths of S- and P-wave singly, doubly, and triply heavy charm and bottom baryons*. **Phys. Rev. D** **108** 054014 (2023). [arXiv:2307.04939 \[hep-ph\]](#).
- E: Meng, Lu and Wang, Bo and Wang, Guang-Juan and Zhu, Shi-Lin: *Chiral perturbation theory for heavy hadrons and chiral effective field theory for heavy hadronic molecules*. **Phys. Rept.** **1019** 1–149 (2023). [arXiv:2204.08716 \[hep-ph\]](#).
- E: Liang, Ze-Rui and Qiu, Peng-Cheng and Yao, De-Liang: *One-loop analysis of the interactions between doubly charmed baryons and Nambu-Goldstone bosons*. **JHEP** **07** 124 (2023). [arXiv:2303.03370 \[hep-ph\]](#).
- E: Gross, Franz and others: *50 Years of Quantum Chromodynamics*. **Eur. Phys. J. C** **83** 1125 (2023). [arXiv:2212.11107 \[hep-ph\]](#).
- E: Ghaleynovi, Zahra and Sorkhi, Masoumeh Moazzen: *Static properties and Semileptonic transitions of lowest-lying double heavy baryons*. **Chin. Phys. C** **47** 033105 (2023). [arXiv:2208.07625 \[hep-ph\]](#).
- E: Geng, Chao-Qiang and Liu, Chia-Wei and Zhou, Aowen and Yu, Xiao: *Semileptonic decays of doubly charmed baryons in the bag model*. **Phys. Rev. D** **107** 053008 (2023). [arXiv:2211.04372 \[hep-ph\]](#).
- E: Farhadi, Mansour and Moosavi Nejad, S. Mohammad and Armat, A.: *Radiative and semileptonic decay widths of heavy ground state baryons in diquark model*. **Eur. Phys. J. A** **59** 171 (2023).
- E: Dulibić, Lovro and Gratex, James and Melić, Blaženka and Nišandžić, Ivan: *Revisiting lifetimes of doubly charmed baryons*. **JHEP** **07** 061 (2023). RBI-ThPhys-2023-9, [arXiv:2305.02243 \[hep-ph\]](#).
- E: Alexeev, G. D. and others, COMPASS Collaboration: *Double J/ψ production in pion-nucleon scattering at COMPASS*. **Phys. Lett. B** **838** 137702 (2023). CERN-EP-2022-073, [arXiv:2204.01817 \[hep-ex\]](#).
- T: Xu, Ao: *Study of charmed baryons at the LHCb experiment*. (2022). CERN-THESIS-2022-271.
- E: Tong, Hao-Ze and Li, Hao-Song: *Chiral corrections to the masses of the doubly heavy baryons*. **Commun. Theor. Phys.** **74** 085201 (2022). [arXiv:2110.01380 \[hep-ph\]](#).
- T: Seman Bobulska, Dana: *Doubly charmed baryon searches at the LHCb experiment*. (2022). CERN-THESIS-2022-162.
- E: Polyakov, Maxim V. and Praszalowicz, Michal: *Landscape of heavy baryons from the perspective of the chiral quark-soliton model*. **Phys. Rev. D** **105** 094004 (2022). [arXiv:2201.07293 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **PTEP** **2022** 083C01 (2022).

- E: Oudichhya, Juhi and Gandhi, Keval and Kumar Rai, Ajay: *Mass spectra of Ξ_{cc} , Ξ_{bc} , Ω_{cc} , and Ω_{bc} baryons in Regge phenomenology*. *Phys. Scripta* **97** 054001 (2022). [arXiv:2204.10045 \[hep-ph\]](#).
- E: Mutuk, Haili: *The status of Ξ_{cc}^{++} baryon: investigating quark-diquark model*. *Eur. Phys. J. Plus* **137** 10 (2022). [arXiv:2112.06205 \[hep-ph\]](#).
- E: Klempt, Eberhard and Neubert, Sebastian: *Heavy-flavor baryons*. (2022). [arXiv:2211.12897 \[hep-ph\]](#).
- E: He, Hui-Zhen and Liang, Wei and Lü, Qi-Fang: *Strong decays of the low-lying doubly bottom baryons*. *Phys. Rev. D* **105** 014010 (2022). [arXiv:2106.11045 \[hep-ph\]](#).
- E: Ghaleynovi, Zahra and Shen, Cheng-Ping and Moazzen Sorkhi, Masoumeh: *Mass spectra and semileptonic decays of doubly heavy Ξ and Ω baryons*. *Phys. Lett. B* **834** 137405 (2022). [arXiv:2204.02938 \[hep-ph\]](#).
- E: Cheng, Hai-Yang: *Charmed baryon physics circa 2021*. *Chin. J. Phys.* **78** 324–362 (2022). [arXiv:2109.01216 \[hep-ph\]](#).
- E: Chen, Xiaoyun and Yang, Youchang: *Doubly-heavy tetraquark states and **. *Chin. Phys. C* **46** 054103 (2022). [arXiv:2109.02828 \[hep-ph\]](#).
- E: Alrebdī, H. I. and Alnahdi, R. F. and Barakat, T.: *Excited states of spin-(3/2) doubly-heavy baryons within the QCD sum rules method*. *Eur. Phys. J. C* **82** 450 (2022).
- E: Aliyev, Takhmasib and Bilmiş, Selçuk: *Properties of doubly heavy baryons in QCD*. *Turk. J. Phys.* **46** 1–26 (2022). [arXiv:2203.02965 \[hep-ph\]](#).
- E: Abu-shady, M. and Fath-Allah, H. M.: *Masses of Single, Double, and Triple Heavy Baryons in the Hyper-Central Quark Model by Using GF-AEIM*. *Adv. High Energy Phys.* **2022** 4539308 (2022). [arXiv:2206.08372 \[hep-ph\]](#).
- E: Zhou, Yixiong, LHCb Collaboration: *Charmed hadron properties and spectroscopy at LHCb*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 441 (2021).
- E: Yao, De-Liang and Dai, Ling-Yun and Zheng, Han-Qing and Zhou, Zhi-Yong: *A review on partial-wave dynamics with chiral effective field theory and dispersion relation*. *Rept. Prog. Phys.* **84** 076201 (2021). [arXiv:2009.13495 \[hep-ph\]](#).
- T: Wang, Mengzhen: *Amplitude analysis of the $\Lambda_b^0 \rightarrow J/\psi p K^-$ decay and first observation of the $\Lambda_b^0 \rightarrow \eta_c(1S) p K^-$ decay*. (2021). CERN-THESIS-2021-314.
- E: Shukhtina, A. K.: *Wave Functions of Doubly Heavy Baryons on the Light Cone*. *Phys. Atom. Nucl.* **84** 1957–1961 (2021).
- E: Shah, Zalak and Kakadiya, Ameer and Gandhi, Keval and Rai, Ajay Kumar: *Properties of Doubly Heavy Baryons*. *Universe* **7** 337 (2021).
- E: Rostami, S. and Azizi, K. and Olamaei, A. R.: *Strong Coupling Constants of the Doubly Heavy Spin-1/2 Baryons with Light Pseudoscalar Mesons*. *Chin. Phys. C* **45** 023120 (2021). [arXiv:2008.12715 \[hep-ph\]](#).
- E: Qiu, Peng-Cheng and Yao, De-Liang: *Chiral effective Lagrangian for doubly charmed baryons up to $\mathcal{O}(q^4)$* . *Phys. Rev. D* **103** 034006 (2021). [arXiv:2012.11117 \[hep-ph\]](#).
- E: Olamaei, A. R. and Azizi, K. and Rostami, S.: *Strong vertices of doubly heavy spin-3/2 baryons with light pseudoscalar mesons*. *Chin. Phys. C* **45** 113107 (2021). [arXiv:2102.03852 \[hep-ph\]](#).
- E: Li, De-Min and Zhang, Xi-Ruo and Xing, Ye and Xu, Ji: *Weak decays of doubly heavy baryons: four-body nonleptonic decay channels*. *Eur. Phys. J. Plus* **136** 772 (2021). [arXiv:2101.12574 \[hep-ph\]](#).
- E: Li, Run-Hui and Hou, Juan-Juan and He, Bei and Wang, Ya-Ru: *Weak Decays of Doubly Heavy Baryons: $B_{cc} \rightarrow BD^{(*)}$* . *Chin. Phys. C* **45** 043108 (2021). [arXiv:2010.09362 \[hep-ph\]](#).
- E: Li, Shi-Yuan and Li, Zhen-Yang and Si, Zong-Guo and Yang, Zhong-Juan and Zhang, Xiao: *Doubly heavy baryon Ξ_{cc} production in $\Upsilon(1S)$ decay*. *Phys. Rev. D* **104** 114003 (2021). [arXiv:2007.07706 \[hep-ph\]](#).
- E: Agostini, P. and others, LHeC, FCC-he Study Group Collaboration: *The Large Hadron–Electron Collider at the HL-LHC*. *J. Phys. G* **48** 110501 (2021). CERN-ACC-Note-2020-0002, JLAB-ACP-20-3180, [arXiv:2007.14491 \[hep-ex\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+ in the $\Xi_c^+ \pi^- \pi^+$ final state*. *JHEP* **12** 107 (2021). LHCb-PAPER-2021-019, CERN-EP-2021-155, [arXiv:2109.07292 \[hep-ex\]](#).
- E: Ghasemi, M. and Sepahvand, R.: *The Effect of Spin Orientation Quark on the Cross-Section Production of Heavy Triply Baryon at the LHC ($\sqrt{s} = 14\text{TeV}$)*. *Int. J. Theor. Phys.* **60** 1261–1274 (2021).
- E: Cheng, Jian-Bo and Li, Shi-Yuan and Liu, Yan-Rui and Si, Zong-Guo and Yao, Tao: *Double-heavy tetraquark states with heavy diquark-antiquark symmetry*. *Chin. Phys. C* **45** 043102 (2021). [arXiv:2008.00737 \[hep-ph\]](#).
- E: Can, Kadir Utku: *Lattice QCD study of the elastic and transition form factors of charmed baryons*. *Int. J. Mod. Phys. A* **36** 2130013 (2021). [arXiv:2107.13159 \[hep-lat\]](#).
- E: Bobulska, Dana, LHCb Collaboration: *Charm baryons at LHCb*. *10th International Workshop on Charm Physics. Proceedings of Science CHARM2020* 030 (2021). LHCb-PROC-2022-001, CERN-LHCb-PROC-2022-001.
- E: Belyaev, I. and Carboni, G. and Harnew, N. and Matteuzzi, C. and Teubert, F.: *The history of LHCb*. *Eur. Phys. J. H* **46** 3 (2021). [arXiv:2101.05331 \[physics.hist-ph\]](#).
- E: Anderle, Daniele P. and others: *Electron-ion collider in China*. *Front. Phys. (Beijing)* **16** 64701 (2021). *Frontiers of Physics*, Volume 16 Issue (6):64701, 2021, [arXiv:2102.09222 \[nucl-ex\]](#).

- E: Aliev, T. M. and Şimşek, K.: *Strong vertices of doubly heavy spin- 3/2 –spin- 1/2 baryons with light mesons in light-cone QCD sum rules.* *Phys. Rev. D* **103** 054044 (2021). [arXiv:2011.07150 \[hep-ph\]](#).
- E: Abu-Shady, M. and Ahmed, M. M. A. and Gerish, N. H.: *Magnetic Moments and Decay Rates for Double Heavy Baryons in the Non-Relativistic Quark Model.* *Phys. Part. Nucl. Lett.* **18** 294–301 (2021).
- E: Zheng, Xu-Chang and Chang, Chao-Hsi and Feng, Tai-Fu: *A proposal on complementary determination of the effective electro-weak mixing angles via doubly heavy-flavored hadron production at a super Z-factory.* *Sci. China Phys. Mech. Astron.* **63** 281011 (2020). [arXiv:1810.09393 \[hep-ph\]](#).
- E: Wu, Xing-Gang: *A new search for the doubly charmed baryon Ξ_{cc}^+ at the LHC.* *Sci. China Phys. Mech. Astron.* **63** 221063 (2020). [arXiv:1912.01953 \[hep-ex\]](#).
- E: Vogt, Ramona and Brodsky, Stanley J.: *Intrinsic charm production of doubly charmed baryons: Collider vs. fixed-target.* *Sci. China Phys. Mech. Astron.* **63** 221066 (2020).
- E: Sun, Zhan and Wu, Xing-Gang: *The production of the doubly charmed baryon in deeply inelastic ep scattering at the Large Hadron Electron Collider.* *JHEP* **07** 034 (2020). [arXiv:2004.01012 \[hep-ph\]](#).
- E: Soto, Joan and Tarrús Castellà, Jaume: *Effective field theory for double heavy baryons at strong coupling.* *Phys. Rev. D* **102** 014013 (2020). [arXiv:2005.00551 \[hep-ph\]](#).
- E: Rahmani, S. and Hassanabadi, H. and Sobhani, H.: *Mass and decay properties of double heavy baryons with a phenomenological potential model.* *Eur. Phys. J. C* **80** 312 (2020).
- E: Praszalowicz, Michal: *Doubly heavy QQ tetraquarks.* *Acta Phys. Polon. Supp.* **13** 103–108 (2020). [arXiv:1904.02676 \[hep-ph\]](#).
- T: Pereira Pires Pavao, Rafael: *Dynamics of charmed and bottomed meson and baryon resonances.* (2020).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2020** 083C01 (2020).
- E: Parkhomenko, Alexander and Shukhtina, Alice: *Light-Cone Distribution Amplitudes of Doubly-Heavy Baryons.* *J. Phys. Conf. Ser.* **1690** 012081 (2020).
- E: Olamaei, A. R. and Azizi, K. and Rostami, S.: *Strong coupling constants of the doubly heavy Ξ_{QQ} Baryons with π Meson.* *Eur. Phys. J. C* **80** 613 (2020). [arXiv:2003.12723 \[hep-ph\]](#).
- E: Needham, Matthew, LHCb Collaboration: *Spectroscopy at LHCb - conventional states.* *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* 012 (2020).
- E: Medina-Carrillo, B. and Sánchez-Colón, G. and Gupta, V.: *Strong interaction coupling-constant sum rules for heavy hadrons with broken SU(3) symmetry.* *Mod. Phys. Lett. A* **35** 2050284 (2020).
- E: Luchinsky, A. V. and Likhoded, A. K.: *Exclusive decays of the doubly heavy baryon Ξ_{bc} .* *Phys. Rev. D* **102** 014019 (2020). [arXiv:2007.04010 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Measurement of Ξ_{cc}^{++} production in pp collisions at $\sqrt{s} = 13$ TeV.* *Chin. Phys. C* **44** 022001 (2020). LHCb-PAPER-2019-035, CERN-EP-2019-220, [arXiv:1910.11316 \[hep-ex\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+ .* *Sci. China Phys. Mech. Astron.* **63** 221062 (2020). LHCb-PAPER-2019-029, CERN-EP-2019-199, [arXiv:1909.12273 \[hep-ex\]](#).
- T: Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons.* (2020).
- E: Koppenburg, Patrick: *Beauty 2019 – Conference summary.* *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* 058 (2020). [arXiv:2001.11796 \[hep-ex\]](#).
- E: Ke, Hong-Wei and Lu, Fang and Liu, Xiao-Hai and Li, Xue-Qian: *Study on $\Xi_{cc} \rightarrow \Xi_c$ and $\Xi_{cc} \rightarrow \Xi'_c$ weak decays in the light-front quark model.* *Eur. Phys. J. C* **80** 140 (2020). [arXiv:1912.01435 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *LHCb gets closer to discovering the second doubly charmed baryon.* *Sci. China Phys. Mech. Astron.* **63** 221064 (2020). [arXiv:1912.01963 \[hep-ex\]](#).
- E: Kaneko, Takashi: *Lattice QCD: Hadron Spectroscopy and Flavor Physics.* [doi:10.1142/9789811207402%5F0019](#) (2020). KEK-CP-366, [arXiv:1807.04134 \[hep-lat\]](#).
- E: Ivanov, M. A. and Körner, J. G. and Lyubovitskij, V. E.: *Nonleptonic Decays of Doubly Charmed Baryons.* *Phys. Part. Nucl.* **51** 678–685 (2020).
- E: Ivanov, Mikhail A.: *Nonleptonic Decays of Doubly Charmed Baryons.* *Particles* **3** 123–144 (2020).
- T: Gross, Johnathan Loren: *Calculation of Isospin Symmetry Violating Baryon Mass Splittings and Hybrid Baryon Masses.* (2020).
- E: Gridin, Andrei and Groote, Stefan and Guskov, Alexey and Koshkarev, Sergey: *Phenomenological study for the search of evidence for intrinsic charm at the COMPASS experiment.* *Phys. Part. Nucl. Lett.* **17** 826–833 (2020). [arXiv:1901.01712 \[hep-ph\]](#).
- E: Gersabeck, Evelina and Pich, Antonio: *Tau and charm decays.* *Comptes Rendus Physique* **21** 75–92 (2020).
- E: Delpasand, Mahdi and Moosavi Nejad, S. Mohammad: *Ω_{ccc} baryon production from gluon in vector diquark fragmentation.* *Eur. Phys. J. A* **56** 56 (2020).
- E: Brambilla, Nora and Eidelman, Simon and Hanhart, Christoph and Nefediev, Alexey and Shen, Cheng-Ping and Thomas, Christopher E. and Vairo, Antonio and Yuan, Chang-Zheng: *The XYZ states: experimental and theoretical status and perspectives.* *Phys. Rept.* **873** 1–154 (2020). TUM-EFT 125/19, [arXiv:1907.07583 \[hep-ex\]](#).

- E: Bjorken, J. D. and others: *Community Support for A Fixed-Target Programme for the LHC*. (2020).
- E: Bahtiyar, Huseyin and Can, Kadir Utku and Erkol, Guray and Gubler, Philipp and Oka, Makoto and Takahashi, Toru T.: *Charmed baryon spectrum from lattice QCD near the physical point*. *Phys. Rev. D* **102** 054513 (2020). [arXiv:2004.08999 \[hep-lat\]](#).
- E: Azizi, K. and Olamaei, A. R. and Rostami, S.: *Strong interaction of doubly heavy spin-3/2 baryons with light vector mesons*. *Eur. Phys. J. C* **80** 1196 (2020). [arXiv:2011.02919 \[hep-ph\]](#).
- E: Alrebdi, H. I. and Aliev, T. M. and Şimşek, K.: *Determination of the strong vertices of doubly heavy baryons with pseudoscalar mesons in QCD*. *Phys. Rev. D* **102** 074007 (2020). [arXiv:2008.05098 \[hep-ph\]](#).
- E: Aliev, T. M. and Şimşek, K.: *Strong coupling constants of doubly heavy baryons with vector mesons in QCD*. *Eur. Phys. J. C* **80** 976 (2020). [arXiv:2009.03464 \[hep-ph\]](#).
- E: Alexandrou, Constantia: *Recent progress on the study of nucleon structure from lattice QCD and future perspectives*. *SciPost Phys. Proc.* **3** 015 (2020).
- E: Yu, Q. X. and Pavao, R. and Debastiani, V. R. and Oset, E.: *Description of the Ξ_c and Ξ_b states as molecular states*. *Eur. Phys. J. C* **79** 167 (2019). [arXiv:1811.11738 \[hep-ph\]](#).
- E: Yu, Qi-Xin and Guo, Xin-Heng: *Masses of doubly heavy baryons in the Bethe-Salpeter equation approach*. *Nucl. Phys. B* **947** 114727 (2019). [arXiv:1810.00437 \[hep-ph\]](#).
- T: Yao, Xiaojun: *Application of Effective Field Theory in Nuclear Physics*. (2019). [arXiv:1911.08500 \[nucl-th\]](#).
- E: Vieira, Daniel: *Measurements with doubly-charmed hadrons in LHCb*. *EPJ Web Conf.* **202** 02003 (2019).
- T: Traill, Murdo: *Searches for Doubly Charmed Baryons at LHCb*. (2019). CERN-THESIS-2019-156.
- E: Solovieva, Elena: *Latest Results in Charmed Baryons Spectroscopy*. *EPJ Web Conf.* **222** 03020 (2019).
- E: Salehi, N.: *Spectroscopy of Ω_{cc} , Ω_{bb} and Ω_{bc} Baryons in Hypercentral Constituent Quark Model via Ansatz Method*. *Acta Phys. Polon. B* **50** 735–752 (2019).
- E: Rosner, Jonathan L.: *Heavy-quark exotics*. (2019). [arXiv:1909.02120 \[hep-ph\]](#).
- T: Rajendrakumar, Soni Nakul: *Study of decay properties of heavy flavor and exotic hadrons*. (2019).
- E: Park, Woosung and Noh, Sungsik and Lee, Su Houn: *Masses of the doubly heavy tetraquarks in a constituent quark model*. *Nucl. Phys. A* **983** 1–19 (2019). [arXiv:1809.05257 \[nucl-th\]](#).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof and Fernández-Ramírez, César: *Hidden charm pentaquarks: mass spectrum, magnetic moments, and photocouplings*. *J. Phys. G* **46** 065104 (2019). [arXiv:1808.10512 \[nucl-th\]](#).
- E: Nishida, Shohei: *Recent Results with Charm Baryons*. *Springer Proc. Phys.* **234** 37–44 (2019).
- E: Mehen, Thomas C. and Mohapatra, Abhishek: *Perturbative Corrections to Heavy Quark-Diquark Symmetry Predictions for Doubly Heavy Baryon Hyperfine Splittings*. *Phys. Rev. D* **100** 076014 (2019). [arXiv:1905.06965 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *A search for $\Xi_{cc}^{++} \rightarrow D^+ p K^- \pi^+$ decays*. *JHEP* **10** 124 (2019). LHCb-PAPER-2019-011, CERN-EP-2019-067, [arXiv:1905.02421 \[hep-ex\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- T: Koomi, Zachary: *Isospin Violating Hadronic Mass Splittings using Lattice QCD+QED*. (2019).
- E: Hu, Y., BESIII Collaboration: *Charmonium and Charm Spectroscopy*. (2019). [arXiv:1906.08998 \[hep-ex\]](#).
- E: Gutsche, Thomas and Ivanov, Mikhail A. and Körner, Jürgen G. and Lyubovitskij, Valery E.: *Novel ideas in nonleptonic decays of double heavy baryons*. *Particles* **2** 339–356 (2019). MITP/19-030, [arXiv:1905.06219 \[hep-ph\]](#).
- E: Gerasimov, A. S. and Luchinsky, A. V.: *Weak decays of doubly heavy baryons: Decays to a system of π mesons*. *Phys. Rev. D* **100** 073015 (2019). [arXiv:1905.11740 \[hep-ph\]](#).
- E: Er, N. and Azizi, K.: *Fate of the doubly heavy spin–3/2 baryons in a dense medium*. *Phys. Rev. D* **99** 074012 (2019). [arXiv:1901.07399 \[hep-ph\]](#).
- E: Chen, Gu and Wu, Xing-Gang and Xu, Shuai: *Impacts of the intrinsic charm content of the proton on the Ξ_{cc} hadroproduction at a fixed target experiment at the LHC*. *Phys. Rev. D* **100** 054022 (2019). [arXiv:1903.00722 \[hep-ph\]](#).
- E: Capriotti, Lorenzo, LHCb Collaboration: *Spectroscopy of Heavy Hadrons at LHCb*. *J. Phys. Conf. Ser.* **1137** 012004 (2019).
- E: Can, Kadir Utku and Bahtiyar, Huseyin and Erkol, Guray and Gubler, Philipp and Oka, Makoto and Takahashi, Toru T.: *Spectrum of the Charmed Baryons in 2+1-flavor Lattice QCD*. *JPS Conf. Proc.* **26** 022028 (2019).
- T: Burr, Christopher: *Searching for rare charm decays, performing alignment studies and improving the analysis ecosystem in HEP*. (2019).
- E: Azizi, K. and Er, N.: *Effects of a dense medium on parameters of doubly heavy baryons*. *Phys. Rev. D* **100** 074004 (2019). [arXiv:1906.09087 \[hep-ph\]](#).
- E: Zhou, Qin-Song and Chen, Kan and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *Surveying exotic pentaquarks with the typical $QQqq\bar{q}$ configuration*. *Phys. Rev. C* **98** 045204 (2018). LZU-2018-01, [arXiv:1801.04557 \[hep-ph\]](#).

- E: Zhang, Qi-An: *Weak Decays of Doubly Heavy Baryons: W-Exchange*. *Eur. Phys. J. C* **78** 1024 (2018). [arXiv:1811.02199 \[hep-ph\]](#).
- E: Yu, Fu-Sheng and Jiang, Hua-Yu and Li, Run-Hui and Lü, Cai-Dian and Wang, Wei and Zhao, Zhen-Xing: *Discovery Potentials of Doubly Charmed Baryons*. *Chin. Phys. C* **42** 051001 (2018). [arXiv:1703.09086 \[hep-ph\]](#).
- E: Yao, Xiaojun and Müller, Berndt: *Doubly charmed baryon production in heavy ion collisions*. *Phys. Rev. D* **97** 074003 (2018). [arXiv:1801.02652 \[hep-ph\]](#).
- E: Yao, De-Liang: *Masses and sigma terms of doubly charmed baryons up to $\mathcal{O}(p^4)$ in manifestly Lorentz-invariant baryon chiral perturbation theory*. *Phys. Rev. D* **97** 034012 (2018). [arXiv:1801.09462 \[hep-ph\]](#).
- E: Xu, Ao, LHCb Collaboration: *Heavy Flavour Spectroscopy at LHCb*. *Int. J. Mod. Phys. Conf. Ser.* **46** 1860031 (2018).
- E: Wu, Jing and Liu, Yan-Rui and Chen, Kan and Liu, Xiang and Zhu, Shi-Lin: *Heavy-flavored tetraquark states with the $QQ\bar{Q}\bar{Q}$ configuration*. *Phys. Rev. D* **97** 094015 (2018). [arXiv:1605.01134 \[hep-ph\]](#).
- E: Weng, Xin-Zhen and Chen, Xiao-Lin and Deng, Wei-Zhen: *Masses of doubly heavy-quark baryons in an extended chromomagnetic model*. *Phys. Rev. D* **97** 054008 (2018). [arXiv:1801.08644 \[hep-ph\]](#).
- E: Solovieva, Elena: *Recent developments in charmed baryon spectroscopy*. *EPJ Web Conf.* **191** 02013 (2018).
- E: Shi, Yu-Ji and Wang, Wei and Xing, Ye and Xu, Ji: *Weak Decays of Doubly Heavy Baryons: Multi-body Decay Channels*. *Eur. Phys. J. C* **78** 56 (2018). [arXiv:1712.03830 \[hep-ph\]](#).
- E: Salehi, Nasrin and Mohajery, Neda: *An efficient method for obtaining the ground and excited states mass spectrum of doubly heavy Ω baryons*. *Eur. Phys. J. Plus* **133** 416 (2018).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E: Palano, Antimo: *Heavy flavour spectroscopy and hadron properties from LHCb*. *EPJ Web Conf.* **192** 00037 (2018). LHCb-PROC-2018-024, CERN-LHCb-PROC-2018-024.
- E: Palano, Antimo: *Hadron spectroscopy in LHCb*. *EPJ Web Conf.* **181** 01024 (2018). LHCb-PROC-2018-011.
- E: Olsen, Stephen Lars and Skwarnicki, Tomasz and Zieminska, Daria: *Nonstandard heavy mesons and baryons: Experimental evidence*. *Rev. Mod. Phys.* **90** 015003 (2018). [arXiv:1708.04012 \[hep-ph\]](#).
- E: Nielsen, Marina and Brodsky, Stanley J. and de Téramond, Guy F. and Dosch, Hans Günter and Navarra, Fernando S. and Zou, Liping: *Supersymmetry in the Double-Heavy Hadronic Spectrum*. *Phys. Rev. D* **98** 034002 (2018). [arXiv:1805.11567 \[hep-ph\]](#).
- E: Nielsen, Marina and Brodsky, Stanley J.: *Hadronic superpartners from a superconformal and supersymmetric algebra*. *Phys. Rev. D* **97** 114001 (2018). SLAC-PUB-17231, [arXiv:1802.09652 \[hep-ph\]](#).
- E: Mohler, Daniel: *Heavy-hadron interactions from Lattice QCD*. *EPJ Web Conf.* **181** 01027 (2018).
- E: Mohajery, Neda and Salehi, Nasrin and Hassanabadi, Hassan: *A New Model for Calculating the Ground and Excited States Masses Spectra of Doubly Heavy Ξ Baryons*. *Adv. High Energy Phys.* **2018** 1326438 (2018). [arXiv:1807.06800 \[nucl-th\]](#).
- E: Meng, Lu and Li, Ning and Zhu, Shi-lin: *Possible hadronic molecules composed of the doubly charmed baryon and nucleon*. *Eur. Phys. J. A* **54** 143 (2018). [arXiv:1707.03598 \[hep-ph\]](#).
- E: Liu, Ming-Zhu and Xiao, Yang and Geng, Li-Sheng: *Magnetic moments of the spin-1/2 doubly charmed baryons in covariant baryon chiral perturbation theory*. *Phys. Rev. D* **98** 014040 (2018). [arXiv:1807.00912 \[hep-ph\]](#).
- E: Likhoded, A. K. and Luchinsky, A. V.: *Lifetimes of Doubly Heavy Baryons*. *Phys. Atom. Nucl.* **81** 737–747 (2018).
- E: Li, Run-Hui and Lu, Cai-Dian: *Search for doubly heavy baryon via weak decays*. (2018). [arXiv:1805.09064 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++}* . *Phys. Rev. Lett.* **121** 052002 (2018). LHCb-PAPER-2018-019, CERN-EP-2018-146, LHCb-PAPER-2018-019, [arXiv:1806.02744 \[hep-ex\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Analysis of the baryonic state $[[qc]c$* . (2018). [arXiv:1803.07034 \[hep-ph\]](#).
- E: Kiselev, V. V. and Berezhnoy, A. V. and Likhoded, A. K.: *Quark–Diquark Structure and Masses of Doubly Charmed Baryons*. *Phys. Atom. Nucl.* **81** 369–372 (2018). [arXiv:1706.09181 \[hep-ph\]](#).
- E: Kerbikov, B. O.: *Doubly charmed baryon mass and wave function through a random walks method*. *JETP Lett.* **107** 273–275 (2018). [arXiv:1707.04031 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Strange baryons with two heavy quarks*. *Phys. Rev. D* **97** 094006 (2018). EFI 17-16, TAUP 3022/17, EFI-17-16, TAUP-3022-17, [arXiv:1803.01657 \[hep-ph\]](#).
- E: Jiang, Li-Juan and He, Bei and Li, Run-Hui: *Weak decays of doubly heavy baryons: $\mathcal{B}_{cc} \rightarrow \mathcal{B}_c V$* . *Eur. Phys. J. C* **78** 961 (2018). [arXiv:1810.00541 \[hep-ph\]](#).
- E: Hu, Xiao-Hui and Shen, Yue-Long and Wang, Wei and Zhao, Zhen-Xing: *Weak decays of doubly heavy baryons: "decay constants"*. *Chin. Phys. C* **42** 123102 (2018). [arXiv:1711.10289 \[hep-ph\]](#).
- E: Horsley, R. and Koumi, Z. and Nakamura, Y. and Perlt, H. and Rakow, P. E. L. and Schierholz, G. and Schiller, A. and Stuben, H. and Young, R. D. and Zanotti, J. M.: *Charmed states and flavour symmetry breaking*. *EPJ Web Conf.* **175** 06017 (2018). ADP-17-35-T1041, DESY-17-181, EDINBURGH-2017-23, LIVERPOOL-LTH-1144, [arXiv:1711.02485 \[hep-lat\]](#).

- E: Hiller Blin, Astrid N. and Sun, Zhi-Feng and Vicente Vacas, M. J.: *Electromagnetic form factors of spin 1/2 doubly charmed baryons*. *Phys. Rev. D* **98** 054025 (2018). [arXiv:1807.01059 \[hep-ph\]](#).
- E: Geng, C. Q. and Hsiao, Y. K. and Liu, Chia-Wei and Tsai, Tien-Hsueh: *Antitriplet charmed baryon decays with $SU(3)$ flavor symmetry*. *Phys. Rev. D* **97** 073006 (2018). [arXiv:1801.03276 \[hep-ph\]](#).
- E: Gadaria, A. N. and Soni, N. R. and Chaturvedi, Raghav and Kumar Rai, Ajay and Pandya, J. N.: *Decay properties of Ξ_{cc}^{++} baryon*. *DAE Symp. Nucl. Phys.* **63** 912–913 (2018).
- E: Dias, J. M. and Debastiani, V. R. and Xie, J. -Jun and Oset, E.: *Doubly charmed Ξ_{cc} molecular states from meson-baryon interaction*. *Phys. Rev. D* **98** 094017 (2018). [arXiv:1805.03286 \[hep-ph\]](#).
- E: Chen, Gu and Chang, Chao-Hsi and Wu, Xing-Gang: *Hadronic production of the doubly charmed baryon via the proton–nucleus and the nucleus–nucleus collisions at the RHIC and LHC*. *Eur. Phys. J. C* **78** 801 (2018). [arXiv:1808.03174 \[hep-ph\]](#).
- E: Cardinale, Roberta, LHCb Collaboration: *LHCb spectroscopy results*. *Sixth Annual Conference on Large Hadron Collider Physics*. *Proceedings of Science LHCP2018* 191 (2018).
- E: Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E: Azizi, K. and Olamaei, A. R. and Rostami, S.: *Beautiful mathematics for beauty-full and other multi-heavy hadronic systems*. *Eur. Phys. J. A* **54** 162 (2018). [arXiv:1801.06789 \[hep-ph\]](#).
- E: Yu, Guo Liang and Wang, Zhi Gang and Li, Zhen Yu: *Analysis of the strong vertexes of $\Sigma_c^* ND$ and $\Sigma_b^* NB$ in QCD sum rules*. *Int. J. Mod. Phys. A* **32** 1750203 (2017). [arXiv:1705.03229 \[hep-ph\]](#).
- E: Yu, Guo Liang and Wang, Zhi Gang and Li, Zhen Yu: *Analysis of the strong coupling form factors of $\Sigma_b NB$ and $\Sigma_c ND$ in QCD sum rules*. *Chin. Phys. C* **41** 083104 (2017). [arXiv:1608.03460 \[hep-ph\]](#).
- E: Wang, Wei and Yu, Fu-Sheng and Zhao, Zhen-Xing: *Weak decays of doubly heavy baryons: the $1/2 \rightarrow 1/2$ case*. *Eur. Phys. J. C* **77** 781 (2017). [arXiv:1707.02834 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $QQ\bar{Q}\bar{Q}$ tetraquark states with QCD sum rules*. *Eur. Phys. J. C* **77** 432 (2017). [arXiv:1701.04285 \[hep-ph\]](#).
- E: Wang, Wei and Xing, Zhi-Peng and Xu, Ji: *Weak Decays of Doubly Heavy Baryons: $SU(3)$ Analysis*. *Eur. Phys. J. C* **77** 800 (2017). [arXiv:1707.06570 \[hep-ph\]](#).
- E: Trunin, A. M.: *Pair production of (bc) diquarks at the LHC*. *Phys. Part. Nucl.* **48** 868–870 (2017).
- E: Spradlin, Patrick, LHCb Collaboration: *Discovery of the doubly charmed baryon Ξ_{cc}^{++} at LHCb*. *The European Physical Society Conference on High Energy Physics*. *Proceedings of Science EPS-HEP2017* 408 (2017). LHCb-PROC-2017-036.
- E: Sharma, Neelesh and Dhir, Rohit: *Estimates of W -exchange contributions to Ξ_{cc} decays*. *Phys. Rev. D* **96** 113006 (2017). [arXiv:1709.08217 \[hep-ph\]](#).
- E: Shah, Zalak and Rai, Ajay Kumar: *Excited state mass spectra of doubly heavy Ξ baryons*. *Eur. Phys. J. C* **77** 129 (2017). [arXiv:1702.02726 \[hep-ph\]](#).
- E: Serrano, Justine: *Rare decays and exotic states in quark flavour physics*. *The European Physical Society Conference on High Energy Physics*. *Proceedings of Science EPS-HEP2017* 602 (2017).
- E: Moosavi Nejad, S. Mohammad: *NLO QCD corrections to triply heavy baryon fragmentation function considering the effect of nonperturbative dynamics of baryon bound states*. *Phys. Rev. D* **96** 114021 (2017).
- E: Meng, Lu and Li, Ning and Zhu, Shi-Lin: *Deuteron-like states composed of two doubly charmed baryons*. *Phys. Rev. D* **95** 114019 (2017). [arXiv:1704.01009 \[hep-ph\]](#).
- E: Mehen, Thomas: *Implications of Heavy Quark–Diquark Symmetry for Excited Doubly Heavy Baryons and Tetraquarks*. *Phys. Rev. D* **96** 094028 (2017). [arXiv:1708.05020 \[hep-ph\]](#).
- E: Lü, Qi-Fang and Wang, Kai-Lei and Xiao, Li-Ye and Zhong, Xian-Hui: *Mass spectra and radiative transitions of doubly heavy baryons in a relativized quark model*. *Phys. Rev. D* **96** 114006 (2017). [arXiv:1708.04468 \[hep-ph\]](#).
- E: Li, Run-Hui and Lü, Cai-Dian and Wang, Wei and Yu, Fu-Sheng and Zou, Zhi-Tian: *Doubly-heavy baryon weak decays: $\Xi_{bc}^0 \rightarrow pK^-$ and $\Xi_{cc}^+ \rightarrow \Sigma_c^{++}(2520)K^-$* . *Phys. Lett. B* **767** 232–235 (2017). [arXiv:1701.03284 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Observation of the doubly charmed baryon Ξ_{cc}^{++}* . *Phys. Rev. Lett.* **119** 112001 (2017). LHCb-PAPER-2017-018, CERN-EP-2017-156, [arXiv:1707.01621 \[hep-ex\]](#).
- E: Laha, Ranjan and Brodsky, Stanley J.: *IceCube can constrain the intrinsic charm of the proton*. *Phys. Rev. D* **96** 123002 (2017). SLAC-PUB-16771, [arXiv:1607.08240 \[hep-ph\]](#).
- E: Kovalenko, Vladimir and Puchkov, Andrei: *The mass spectrum of double heavy baryons in new potential quark models*. *EPJ Web Conf.* **137** 13007 (2017).
- E: Koshkarev, Sergey and Groote, Stefan: *Signals of the double intrinsic heavy quark at the current experiments*. *J. Phys. Conf. Ser.* **938** 012054 (2017). [arXiv:1711.07252 \[hep-ph\]](#).
- E: Koshkarev, Sergey and Anikeev, Vladimir: *Production of the doubly charmed baryons at the SELEX experiment – The double intrinsic charm approach*. *Phys. Lett. B* **765** 171–174 (2017). [arXiv:1605.03070 \[hep-ph\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Double quarkonium production at high Feynman-x*. *Nucl. Phys. B* **915** 384–391 (2017). [arXiv:1611.08149 \[hep-ph\]](#).

- E:** Koshkarev, Sergey: *Production of the Doubly Heavy Baryons, B_c Meson and the All-charm Tetraquark at AFTER@LHC with Double Intrinsic Heavy Mechanism.* *Acta Phys. Polon. B* **48** 163 (2017). [arXiv:1610.06125 \[hep-ph\]](#).
- E:** Karliner, Marek and Rosner, Jonathan L.: *Isospin splittings in baryons with two heavy quarks.* *Phys. Rev. D* **96** 033004 (2017). EFI-17-14, TAUP-3019-17, [arXiv:1706.06961 \[hep-ph\]](#).
- E:** Guo, Zhi-Hui: *Prediction of exotic doubly charmed baryons within chiral effective field theory.* *Phys. Rev. D* **96** 074004 (2017). [arXiv:1708.04145 \[hep-ph\]](#).
- E:** Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest.* *Eur. Phys. J. C* **77** 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E:** Geng, C. Q. and Hsiao, Y. K. and Liu, Chia-Wei and Tsai, Tien-Hsueh: *Charmed Baryon Weak Decays with $SU(3)$ Flavor Symmetry.* *JHEP* **11** 147 (2017). [arXiv:1709.00808 \[hep-ph\]](#).
- E:** Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *A review of the open charm and open bottom systems.* *Rept. Prog. Phys.* **80** 076201 (2017). [arXiv:1609.08928 \[hep-ph\]](#).
- E:** Bi, Huan-Yu and Zhang, Ren-You and Wu, Xing-Gang and Ma, Wen-Gan and Li, Xiao-Zhou and Owusu, Samuel: *Photoproduction of doubly heavy baryon at the LHeC.* *Phys. Rev. D* **95** 074020 (2017). [arXiv:1702.07181 \[hep-ph\]](#).
- E:** Alexandrou, Constantia and Kallidonis, Christos: *Low-lying baryon masses using $N_f = 2$ twisted mass clover-improved fermions directly at the physical pion mass.* *Phys. Rev. D* **96** 034511 (2017). [arXiv:1704.02647 \[hep-lat\]](#).
- E:** Zheng, Xu-Chang and Chang, Chao-Hsi and Pan, Zan: *Production of doubly heavy-flavored hadrons at e^+e^- colliders.* *Phys. Rev. D* **93** 034019 (2016). [arXiv:1510.06808 \[hep-ph\]](#).
- E:** Trunin, Anton: *bc diquark pair production in high energy proton-proton collisions.* *Phys. Rev. D* **93** 114029 (2016). [arXiv:1606.04148 \[hep-ph\]](#).
- E:** Thakkar, Kaushal and Majethiya, Ajay and Vinodkumar, P. C.: *Magnetic moments of baryons containing all heavy quarks in the quark-diquark model.* *Eur. Phys. J. Plus* **131** 339 (2016). [arXiv:1609.05444 \[hep-ph\]](#).
- E:** Sun, Zhi-Feng and Vicente Vacas, M. J.: *Masses of doubly charmed baryons in the extended on-mass-shell renormalization scheme.* *Phys. Rev. D* **93** 094002 (2016). [arXiv:1602.04714 \[hep-ph\]](#).
- E:** Shah, Zalak and Thakkar, Kaushal and Rai, Ajay Kumar: *Excited State Mass spectra of doubly heavy baryons Ω_{cc} , Ω_{bb} and Ω_{bc} .* *Eur. Phys. J. C* **76** 530 (2016). [arXiv:1609.03030 \[hep-ph\]](#).
- E:** Shah, Zalak and Thakkar, Kaushal and Kumar Rai, Ajay and Vinodkumar, P. C.: *Excited State Mass spectra of Singly Charmed Baryons.* *Eur. Phys. J. A* **52** 313 (2016). [arXiv:1602.06384 \[hep-ph\]](#).
- E:** Richard, Jean-Marc: *Exotic hadrons: review and perspectives.* *Few Body Syst.* **57** 1185–1212 (2016). [arXiv:1606.08593 \[hep-ph\]](#).
- E:** Puchkov, A. M. and Kozhedub, A. V.: *Two potential quark models for double heavy baryons.* *AIP Conf. Proc.* **1701** 100014 (2016).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **40** 100001 (2016).
- E:** Naik, Paras, LHCb Collaboration: *Charmed baryons at LHCb. VIII International Workshop On Charm Physics. Proceedings of Science CHARM2016* 047 (2016). LHCb-PROC-2017-003, CERN-LHCb-PROC-2017-003.
- E:** Molina, R. and Nagahiro, H. and Hosaka, A.: *Decays of doubly charmed meson molecules.* *AIP Conf. Proc.* **1701** 050011 (2016).
- E:** Ma, Yong-Liang and Harada, Masayasu: *Degeneracy of doubly heavy baryons from heavy quark symmetry.* *Phys. Lett. B* **754** 125–128 (2016). [arXiv:1510.07481 \[hep-ph\]](#).
- E:** Kiselev, V. V. and Novoselov, A. A. and Tagiev, E. R.: *Production of quarkonia and doubly heavy baryons in pp -collisions with duality approach.* (2016). [arXiv:1612.00444 \[hep-ph\]](#).
- T:** Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^+ .* (2016). FERMILAB-MASTERS-2016-13 .
- T:** Charles, Matthew: *Selected results on heavy flavour physics at LHCb.* (2016). tel-01340092.
- E:** Berezhnoy, A. V. and Likhoded, A. K.: *Doubly heavy baryons.* *Phys. Atom. Nucl.* **79** 260–265 (2016).
- E:** Andronic, A. and others: *Heavy-flavour and quarkonium production in the LHC era: from proton–proton to heavy-ion collisions.* *Eur. Phys. J. C* **76** 107 (2016). [arXiv:1506.03981 \[nucl-ex\]](#).
- E:** Wei, Ke-Wei and Chen, Bing and Guo, Xin-Heng: *Masses of doubly and triply charmed baryons.* *Phys. Rev. D* **92** 076008 (2015). [arXiv:1503.05184 \[hep-ph\]](#).
- E:** Sun, Zhi-Feng and Liu, Zhan-Wei and Liu, Xiang and Zhu, Shi-Lin: *Masses and axial currents of the doubly charmed baryons.* *Phys. Rev. D* **91** 094030 (2015). ADP-14-33-T892, [arXiv:1411.2117 \[hep-ph\]](#).
- E:** Pérez-Rubio, Paula and Collins, Sara and Bali, Gunnar S.: *Charmed baryon spectroscopy and light flavor symmetry from lattice QCD.* *Phys. Rev. D* **92** 034504 (2015). [arXiv:1503.08440 \[hep-lat\]](#).
- E:** Padmanath, M. and Edwards, Robert G. and Mathur, Nilmani and Peardon, Michael: *Spectroscopy of doubly-charmed baryons from lattice QCD.* *Phys. Rev. D* **91** 094502 (2015). TIFR-TH-15-06, JLAB-THY-15-2028, [arXiv:1502.01845 \[hep-lat\]](#).

- T:** Ogilvy, Stephen: *Branching ratios of charmed baryons in the LHCb experiment*. (2015).
- E:** Ogilvy, Stephen: *Charmed baryons from LHCb*. (2015). [arXiv:1509.05611 \[hep-ex\]](#).
- E:** Liu, Y. and Liu, L. -L. and Guo, X. -H.: *Study of $\Lambda_b \rightarrow \Lambda l^+ l^-$ and $\Lambda_b \rightarrow pl\bar{\nu}$ decays in the Bethe-Salpeter equation approach*. (2015). [arXiv:1503.06907 \[hep-ph\]](#).
- T:** Duque, Carlos Hidalgo: *An Effective Field Theory study of heavy meson-heavy antimeson molecules based on Heavy Quark Symmetries*. (2015).
- E:** Dhir, Rohit and Kim, C. S.: *Axial-Vector Emitting Weak Nonleptonic Decays of Ω_c^0 Baryon*. *Phys. Rev. D* **91** 114008 (2015). [arXiv:1501.04259 \[hep-ph\]](#).
- E:** Cheng, Hai-Yang: *Charmed Baryons Circa 2015*. (2015). [arXiv:1508.07233 \[hep-ph\]](#).
- E:** Cheng, Hai-Yang: *Charmed baryons circa 2015*. *Front. Phys. (Beijing)* **10** 101406 (2015).
- E:** Andreazza, A. and others: *What Next: White Paper of the INFN-CSN1*. (2015).
- E:** Aliev, T. M. and Azizi, K. and Sundu, H.: *Radiative $\Omega_Q^* \rightarrow \Omega_Q \gamma$ and $\Xi_Q^* \rightarrow \Xi_Q' \gamma$ transitions in light cone QCD*. *Eur. Phys. J. C* **75** 14 (2015). [arXiv:1409.7577 \[hep-ph\]](#).
- T:** Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- E:** Yang, Zhong-Juan and Zhao, Xiao-Xia: *The Production of Ξ_{bb} at Photon Collider*. *Chin. Phys. Lett.* **31** 091301 (2014). [arXiv:1408.5584 \[hep-ph\]](#).
- E:** Yang, Zhong-Juan and Zhang, Pei-Feng and Zheng, Ya-Juan: *Doubly Heavy Baryon Production in e^+e^- Annihilation*. *Chin. Phys. Lett.* **31** 051301 (2014).
- T:** Reyes Ramos, Rocío: *Estudio de interacciones hadrónicas con $\Lambda^0 \Lambda^0 \gamma \Lambda^0 p \pi^-$ en el estado final*. (2014).
- E:** Horsley, R. and Najjar, J. and Nakamura, Y. and Perlt, H. and Pleiter, D. and Rakow, P. E. L. and Schierholz, G. and Schiller, A. and Stüben, H. and Zanotti, J. M., QCDSF-UKQCD Collaboration: *SU(3) flavour symmetry breaking and charmed states*. *31st International Symposium on Lattice Field Theory LATTICE 2013. Proceedings of Science LATTICE2013* 249 (2014). ADP-13-23-T843, DESY-13-220, EDINBURGH-2013-30, LIVERPOOL-LTH-993, [arXiv:1311.5010 \[hep-lat\]](#).
- E:** Polyakov, Ivan, LHCb Collaboration: *b and c hadron spectroscopy at LHCb*. (2014). [arXiv:1404.7613 \[hep-ex\]](#).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Padmanath, M. and Edwards, Robert G. and Mathur, Nilmani and Peardon, Michael: *Spectroscopy of triply-charmed baryons from lattice QCD*. *Phys. Rev. D* **90** 074504 (2014). TIFR-TH-13-23, TCDMATH-13-10, JLAB-THY-13-1767, [arXiv:1307.7022 \[hep-lat\]](#).
- E:** Molina, R. and Nagahiro, H. and Hosaka, A.: *Decays of doubly charmed meson molecules*. [doi:10.1142/9789814618229%5F0023](#) (2014). [arXiv:1308.6351 \[hep-ph\]](#).
- E:** Li, Ning and Sun, Zhi-Feng and Liu, Xing and Zhu, Shi-Lin: *Molecular states with two heavy quarks*. *Int. J. Mod. Phys. Conf. Ser.* **29** 1460218 (2014).
- E:** Koshkarev, Sergey: *Production properties of the Doubly Charmed Baryons at the large Feynman-X*. (2014). [arXiv:1406.4095 \[hep-ph\]](#).
- E:** Koshkarev, Sergey: *On the production properties of the Doubly-Charmed Baryons*. (2014). [arXiv:1403.0264 \[hep-ph\]](#).
- E:** Karliner, Marek: *Doubly Heavy Tetraquarks and Baryons*. *EPJ Web Conf.* **71** 00065 (2014). [arXiv:1401.4058 \[hep-ph\]](#).
- E:** Karliner, Marek and Rosner, Jonathan L.: *Baryons with two heavy quarks: Masses, production, decays, and detection*. *Phys. Rev. D* **90** 094007 (2014). EFI-14-28, TAUP-2986-14, [arXiv:1408.5877 \[hep-ph\]](#).
- E:** Jin, Yi and Li, Shi-Yuan and Liu, Yan-Rui and Si, Zong-Guo and Yao, Tao: *Search for a doubly charmed hadron at B factories*. *Phys. Rev. D* **89** 094006 (2014). [arXiv:1401.6652 \[hep-ph\]](#).
- E:** Chen, Gu and Wu, Xing-Gang and Zhang, Jia-Wei and Han, Hua-Yong and Fu, Hai-Bing: *Hadronic production of Ξ_{cc} at a fixed-target experiment at the LHC*. *Phys. Rev. D* **89** 074020 (2014). [arXiv:1401.6269 \[hep-ph\]](#).
- E:** Chen, Gu and Wu, Xing-Gang and Sun, Zhan and Ma, Yang and Fu, Hai-Bing: *Photoproduction of doubly heavy baryon at the ILC*. *JHEP* **12** 018 (2014). [arXiv:1408.4615 \[hep-ph\]](#).
- E:** Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, K.: *Charmed Bottom Baryon Spectroscopy*. *31st International Symposium on Lattice Field Theory LATTICE 2013. Proceedings of Science LATTICE2013* 248 (2014).
- E:** Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, Kostas: *Charmed bottom baryon spectroscopy from lattice QCD*. *Phys. Rev. D* **90** 094507 (2014). JLAB-THY-14-1950, [arXiv:1409.0497 \[hep-lat\]](#).
- E:** Kato, Y. and others, Belle Collaboration: *Search for doubly charmed baryons and study of charmed strange baryons at Belle*. *Phys. Rev. D* **89** 052003 (2014). BELLE-PREPRINT-2013-29, KEK-PREPRINT-2013-57, [arXiv:1312.1026 \[hep-ex\]](#).
- E:** Bevan, A. J. and others, BaBar, Belle Collaboration: *The Physics of the B Factories*. *Eur. Phys. J. C* **74** 3026 (2014). SLAC-PUB-15968, KEK-PREPRINT-2014-3, FERMILAB-PUB-14-262-T, [arXiv:1406.6311 \[hep-ex\]](#).

- E: Azizi, K. and Aliev, T. M. and Savci, M.: *Properties of doubly and triply heavy baryons*. *J. Phys. Conf. Ser.* **556** 012016 (2014).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Properties of triply heavy spin-3/2 baryons*. *J. Phys. G* **41** 065003 (2014). [arXiv:1404.2091 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Magnetic moments of $\Xi'_Q-\Xi_Q$ transitions in light cone QCD*. *Phys. Rev. D* **89** 053005 (2014). METU-PHYS-HEP-14-02, [arXiv:1402.5283 \[hep-ph\]](#).
- E: Alexandrou, C. and Drach, V. and Jansen, K. and Kallidonis, C. and Koutsou, G.: *Baryon spectrum with $N_f = 2 + 1 + 1$ twisted mass fermions*. *Phys. Rev. D* **90** 074501 (2014). DESY-14-096, [arXiv:1406.4310 \[hep-lat\]](#).
- E: Zhong, Liang, LHCb Collaboration: *b and c hadron production and spectroscopy at LHCb*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 069 (2013).
- E: Vijande, J. and Valcarce, A. and Carames, T. F. and Garcilazo, H.: *Heavy hadron spectroscopy: A quark model perspective*. *Nucl. Phys. A* **914** 472–481 (2013).
- E: Vijande, J. and Valcarce, A. and Carames, T. F. and Garcilazo, H.: *Heavy hadron spectroscopy: a quark model perspective*. *Int. J. Mod. Phys. E* **22** 1330011 (2013). [arXiv:1212.4383 \[hep-ph\]](#).
- E: Thakkar, Kaushal and Vinodkumar, P. C.: *Radial and orbital excited states of Λ_c^+ and Σ_c^+ in a Hypercentral Quark Model*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 055 (2013).
- E: Sarac, Y. and Azizi, K. and Sundu, H.: *Analysis of the semileptonic transition of heavy Ξ_Q baryon to Ξ baryon in Light Cone QCD Sum Rules*. *Nucl. Phys. B Proc. Suppl.* **245** 164–167 (2013).
- E: Pappagallo, Marco, LHCb Collaboration: *Production and spectroscopy of open-flavoured hadrons at hadron colliders*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 008 (2013).
- E: Namekawa, Y. and others, PACS-CS Collaboration: *Charmed baryons at the physical point in 2+1 flavor lattice QCD*. *Phys. Rev. D* **87** 094512 (2013). [arXiv:1301.4743 \[hep-lat\]](#).
- E: Ogilvy, Stephen, LHCb Collaboration: *Studies of charmed baryons at LHCb*. (2013). [arXiv:1312.1601 \[hep-ex\]](#).
- E: Lorce, C. and others: *Spin and diffractive physics with A Fixed-Target Experiment at the LHC (AFTER@LHC)*. *AIP Conf. Proc.* **1523** 149–152 (2013). SLAC-PUB-15300, [arXiv:1212.0425 \[hep-ex\]](#).
- E: Li, Ning and Sun, Zhi-Feng and Liu, Xiang and Zhu, Shi-Lin: *Coupled-channel analysis of the possible $D^{(*)}D^{(*)}$, $\bar{B}^{(*)}\bar{B}^{(*)}$ and $D^{(*)}\bar{B}^{(*)}$ molecular states*. *Phys. Rev. D* **88** 114008 (2013). [arXiv:1211.5007 \[hep-ph\]](#).
- E: Aaij, R and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+* . *JHEP* **12** 090 (2013). CERN-PH-EP-2013-181, LHCb-PAPER-2013-049, [arXiv:1310.2538 \[hep-ex\]](#).
- E: Karliner, Marek and Nussinov, Shmuel: *The doubly heavies: $\bar{Q}Q\bar{q}q$ and $QQ\bar{q}\bar{q}$ tetraquarks and QQq baryons*. *JHEP* **07** 153 (2013). [arXiv:1304.0345 \[hep-ph\]](#).
- E: Jiang, Jun and Wu, Xing-Gang and Wang, Shao-Ming and Zhang, Jia-Wei and Fang, Zhen-Yun: *A Further Study on the Doubly Heavy Baryon Production around the Z^0 Peak at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* **87** 054027 (2013). [arXiv:1302.0601 \[hep-ph\]](#).
- E: Guo, Feng-Kun and Hidalgo-Duque, Carlos and Nieves, Juan and Valderrama, Manuel Pavon: *Heavy-antiquark–diquark symmetry and heavy hadron molecules: Are there triply heavy pentaquarks?*. *Phys. Rev. D* **88** 054014 (2013). [arXiv:1305.4052 \[hep-ph\]](#).
- T: Gascon Bravo, Alberto: *Heavy quark simulation and identification at the Pierre Auger observatory*. (2013).
- E: Dhir, Rohit and Kim, C. S. and Verma, R. C.: *Magnetic Moments of Bottom Baryons: Effective mass and Screened Charge*. *Phys. Rev. D* **88** 094002 (2013). [arXiv:1309.4057 \[hep-ph\]](#).
- E: Crede, V. and Roberts, W.: *Progress towards understanding baryon resonances*. *Rept. Prog. Phys.* **76** 076301 (2013). [arXiv:1302.7299 \[nucl-ex\]](#).
- E: Can, K. U. and Erkol, G. and Isildak, B. and Oka, M. and Takahashi, T. T.: *Electromagnetic properties of doubly charmed baryons in Lattice QCD*. *Phys. Lett. B* **726** 703–709 (2013). [arXiv:1306.0731 \[hep-lat\]](#).
- E: Brodsky, S. J. and Fleuret, F. and Hadjidakis, C. and Lansberg, J. P.: *Physics Opportunities of a Fixed-Target Experiment using the LHC Beams*. *Phys. Rept.* **522** 239–255 (2013). SLAC-PUB-14878, [arXiv:1202.6585 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Masses and Residues of the Triply Heavy Spin-1/2 Baryons*. *JHEP* **04** 042 (2013). [arXiv:1212.6065 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *The masses and residues of doubly heavy spin-3/2 baryons*. *J. Phys. G* **40** 065003 (2013). [arXiv:1208.1976 \[hep-ph\]](#).
- E: Alexandrou, Constantia: *Hadron Physics and Lattice QCD*. *AIP Conf. Proc.* **1560** 3–10 (2013). [arXiv:1208.5679 \[hep-lat\]](#).
- T: Albuquerque, Raphael M.: *Charmonium Exotic States*. [doi:10.11606/T.43.2012.tde-06062013-170356](#) (2013). [arXiv:1306.4671 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the doubly heavy baryons in the nuclear matter with the QCD sum rules*. *Eur. Phys. J. C* **72** 2099 (2012). [arXiv:1205.0605 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the Triply Heavy Baryon States with QCD Sum Rules*. *Commun. Theor. Phys.* **58** 723–731 (2012). [arXiv:1112.2274 \[hep-ph\]](#).

- E: Tang, Liang and Yuan, Xu-Hao and Qiao, Cong-Feng and Li, Xue-Qian: *Study of Doubly Heavy Baryon Spectrum via QCD Sum Rules*. *Commun. Theor. Phys.* **57** 435–444 (2012). [arXiv:1104.4934 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *An introduction to the quark model*. (2012). [arXiv:1205.4326 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *The Role of Flavor in Multiquark Spectroscopy*. (2012). [arXiv:1212.4955 \[nucl-th\]](#).
- E: Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E: Namekawa, Y., PACS-CS Collaboration: *Charmed baryon spectroscopy on the physical point in 2+1 flavor lattice QCD*. *The 30th International Symposium on Lattice Field Theory*. *Proceedings of Science LATTICE2012* 139 (2012). [arXiv:1212.0073 \[hep-lat\]](#).
- E: Jiang, Jun and Wu, Xing-Gang and Liao, Qi-Li and Zheng, Xu-Chang and Fang, Zhen-Yun: *Doubly Heavy Baryon Production at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* **86** 054021 (2012). [arXiv:1208.3051 \[hep-ph\]](#).
- E: Chandra, A. and Bhattacharya, A. and Chakrabarti, B.: *Heavy pentaquarks and doubly heavy baryons in quasi-particle approach*. *Mod. Phys. Lett. A* **27** 1250006 (2012).
- E: Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, Kostas: *Charm-bottom baryon spectroscopy*. *Sixth International Conference on Quarks and Nuclear Physics*. *Proceedings of Science QNP2012* 107 (2012). JLAB-THY-12-1588.
- E: Briceno, Raul A. and Lin, Huey-Wen and Bolton, Daniel R.: *Charmed-Baryon Spectroscopy from Lattice QCD with $N_f = 2+1+1$ Flavors*. *Phys. Rev. D* **86** 094504 (2012). NT-UW-12-12, NT@UW-12-12, [arXiv:1207.3536 \[hep-lat\]](#).
- E: Azizi, K. and Bayar, M. and Ozpineci, A. and Sarac, Y. and Sundu, H.: *Semileptonic transition of Σ_b to Σ in Light Cone QCD Sum Rules*. *Phys. Rev. D* **85** 016002 (2012). [arXiv:1112.5147 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Doubly Heavy Spin-1/2 Baryon Spectrum in QCD*. *Nucl. Phys. A* **895** 59–70 (2012). [arXiv:1205.2873 \[hep-ph\]](#).
- E: Alexandrou, C. and Carbonell, J. and Christaras, D. and Drach, V. and Gravina, M. and Papinutto, M.: *Strange and charm baryon masses with two flavors of dynamical twisted mass fermions*. *Phys. Rev. D* **86** 114501 (2012). DESY-12-069, SFB-CPP-12-25, [arXiv:1205.6856 \[hep-lat\]](#).
- E: Zhang, Jia-Wei and Wu, Xing-Gang and Zhong, Tao and Yu, Yao and Fang, Zhen-Yun: *Hadronic Production of the Doubly Heavy Baryon Ξ_{bc} at LHC*. *Phys. Rev. D* **83** 034026 (2011). [arXiv:1101.1130 \[hep-ph\]](#).
- E: Weng, M. -H. and Guo, X. -H. and Thomas, A. W.: *Bethe-Salpeter equation for doubly heavy baryons in the covariant instantaneous approximation*. *Phys. Rev. D* **83** 056006 (2011). ADP-10-26-T722, [arXiv:1012.0082 \[hep-ph\]](#).
- E: Wang, Zhi-Gang and Xu, Yan-Mei and Wang, Hui-Juan: *Analysis of the scalar doubly heavy tetraquark states with QCD sum rules*. *Commun. Theor. Phys.* **55** 1049–1058 (2011). [arXiv:1004.0484 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $1/2^-$ and $3/2^-$ heavy and doubly heavy baryon states with QCD sum rules*. *Eur. Phys. J. A* **47** 81 (2011). [arXiv:1003.2838 \[hep-ph\]](#).
- E: Vairo, Antonio: *Effective field theories for baryons with two- and three-heavy quarks*. *Few Body Syst.* **49** 263–268 (2011). TUM-EFT-12-10, [arXiv:1008.4473 \[nucl-th\]](#).
- E: Richard, Jean-Marc: *Baryon spectroscopy and heavy quarks*. *Int. J. Mod. Phys. Conf. Ser.* **02** 168–172 (2011). [arXiv:1102.1329 \[hep-ph\]](#).
- E: Narison, Stephan and Albuquerque, Raphael: *Mass-splittings of doubly heavy baryons in QCD*. *Phys. Lett. B* **694** 217–225 (2011). [arXiv:1006.2091 \[hep-ph\]](#).
- T: Majethiya, Ajay A.: *Properties of heavy flavour baryons using quark models*. (2011). Ph.D. Thesis, Sardar Patel Univerity.
- T: Liu, Liuming: *Charmed Hadron Spectrum and Interactions*. [doi:10.21220/s2-7per-0c68](#) (2011).
- E: Lin, Huey-Wen: *Review of Baryon Spectroscopy in Lattice QCD*. *Chin. J. Phys.* **49** 827 (2011). NT@UW-11-09, [arXiv:1106.1608 \[hep-lat\]](#).
- E: Guo, Xin-Heng: *Studies of heavy hadron physics*. *AIP Conf. Proc.* **1418** 170–177 (2011).
- E: Chandra, Arpita and Bhattacharya, Aparajita and Chakrabarti, Ballari: *Baryons and exotic masses in quasi particle approach*. *DAE Symp. Nucl. Phys.* **56** 754–755 (2011).
- E: Brodsky, Stanley J. and Guo, Feng-Kun and Hanhart, Christoph and Meissner, Ulf-G.: *Isospin splittings of doubly heavy baryons*. *Phys. Lett. B* **698** 251–255 (2011). SLAC-PUB-14347, FZJ-IKP-TH-2011-01, [arXiv:1101.1983 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *New Perspectives for QCD Physics at the LHC*. *AIP Conf. Proc.* **1348** 11–34 (2011). SLAC-PUB-14302, [arXiv:1012.0553 \[hep-ph\]](#).
- E: Briceno, Raul A. and Bolton, Daniel and Lin, Huey-Wen: *Charmed Baryon Spectroscopy from Lattice QCD with $N_f = 2 + 1 + 1$ flavors*. *XXIX International Symposium on Lattice Field Theory*. *Proceedings of Science LATTICE2011* 116 (2011). [arXiv:1111.1028 \[hep-lat\]](#).
- E: Albertus, C. and Hernández, E. and Nieves, J.: *Exclusive $c \rightarrow s, d$ semileptonic decays of ground-state spin-1/2 doubly charmed baryons*. *Phys. Lett. B* **704** 499–509 (2011). [arXiv:1108.1296 \[hep-ph\]](#).
- E: Zheng, W. and Pang, H. R.: *Momentum-space Faddeev calculations for ground-state triply and doubly heavy baryons in the constituent quark model*. *Mod. Phys. Lett. A* **25** 2077–2088 (2010).

- E: Wang, Zhi-Gang: *Analysis of the $\frac{3}{2}^+$ heavy and doubly heavy baryon states with QCD sum rules.* *Eur. Phys. J. C* **68** 459–472 (2010). [arXiv:1002.2471 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $\frac{1}{2}^+$ doubly heavy baryon states with QCD sum rules.* *Eur. Phys. J. A* **45** 267–274 (2010). [arXiv:1001.4693 \[hep-ph\]](#).
- E: Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics.* *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E: Majethiya, A. and Patel, B. and Vinodkumar, P. C.: *Quark-diquark model description for double charm baryons.* *Chin. Phys. C* **34** 1399–1401 (2010).
- E: Liu, Liuming and Lin, Huey-Wen and Orginos, Kostas and Walker-Loud, Andre: *Singly and Doubly Charmed $J=1/2$ Baryon Spectrum from Lattice QCD.* *Phys. Rev. D* **81** 094505 (2010). JLAB-THY-09-1060, NT-UW-09-17, [arXiv:0909.3294 \[hep-lat\]](#).
- E: Klempt, Eberhard and Richard, Jean-Marc: *Baryon spectroscopy.* *Rev. Mod. Phys.* **82** 1095–1153 (2010). [arXiv:0901.2055 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Novel QCD Phenomenology.* [doi:10.1142/9789814350198%5F0023](#) (2010). SLAC-PUB-14265, [arXiv:1010.1503 \[hep-ph\]](#).
- E: Azizi, K. and Bayar, M. and Sarac, Y. and Sundu, H.: *FCNC transitions of $\Lambda_{cb}(b,c)$ to nucleon in SM.* *J. Phys. G* **37** 115007 (2010).
- E: Azizi, K. and Bayar, M. and Zeyrek, M. T.: *Flavor Changing Natural Current Transition of the $\Sigma(Q)$ to Nucleon in Full QCD and Heavy Quark Effective Theory.* *J. Phys. G* **37** 085002 (2010). [arXiv:0910.4521 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Analysis of the $\Lambda_b \rightarrow \Lambda \ell^+ \ell^-$ decay in QCD.* *Phys. Rev. D* **81** 056006 (2010). [arXiv:1001.0227 \[hep-ph\]](#).
- E: Albuquerque, R. M. and Narison, S.: *Doubly heavy Baryons from QCD Spectral Sum Rules.* *Nucl. Phys. B Proc. Suppl.* **207-208** 265–268 (2010). [arXiv:1009.2428 \[hep-ph\]](#).
- E: Adams, T. and others: *Renaissance of the ~ 1 TeV Fixed-Target Program.* *Int. J. Mod. Phys. A* **25** 777–813 (2010). SLAC-PUB-14823, FERMILAB-PUB-09-249-PPD, [arXiv:0905.3004 \[hep-ex\]](#).
- E: Zhang, Jian-Rong and Huang, Ming-Qiu: *Heavy flavor baryon spectra via QCD sum rules.* *Chin. Phys. C* **33** 1385–1388 (2009). [arXiv:0904.3391 \[hep-ph\]](#).
- E: Orginos, Konstantinos: *Charmed and Bottom Baryon Spectrum from Lattice QCD.* eCONF C0906083 01 (2009). JLAB-THY-09-988.
- E: Li, Xue-Qian and Liu, Xiang and Wei, Zheng-Tao: *Charm Physics: A Field Full with Challenges and Opportunities.* *Front. Phys. China* **4** 49–74 (2009). [arXiv:0808.2587 \[hep-ph\]](#).
- T: Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD.* (2009). AAT-3352220, PROQUEST-1700674431.
- E: Hu, Jie: *Chiral corrections to heavy quark-diquark symmetry predictions for doubly heavy baryon zero-recoil semileptonic decay.* (2009). [arXiv:0905.3506 \[hep-ph\]](#).
- T: Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD.* (2009). Ph.D. Thesis, Duke University.
- E: Giannuzzi, Floriana: *Heavy hadron spectroscopy in a Salpeter model with AdS/QCD inspired potential.* *European Physical Society Europhysics Conference on High Energy Physics. Proceedings of Science EPS-HEP2009* 059 (2009).
- E: Giannuzzi, Floriana: *Doubly heavy baryons in a quark model with AdS/QCD inspired potential.* *Nuovo Cim.* **32** 131–135 (2009). BARI-TH-613-09, [arXiv:0909.2525 \[hep-ph\]](#).
- E: Giannuzzi, Floriana: *Doubly heavy baryons in a Salpeter model with AdS/QCD inspired potential.* *Phys. Rev. D* **79** 094002 (2009). BARI-TH-605-09, [arXiv:0902.4624 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Dynamic versus Static Hadronic Structure Functions.* *Nucl. Phys. A* **827** 327C–332C (2009). SLAC-PUB-13507, [arXiv:0901.0781 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Novel High Transverse Momentum Phenomena in Hadronic and Nuclear Collisions. 4th international workshop High-pT physics at LHC 09. Proceedings of Science High-pT physics09* 013 (2009). SLAC-PUB-13571, [arXiv:0904.3037 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Dynamic versus Static Structure Functions and Novel Diffractive Effects in QCD.* *AIP Conf. Proc.* **1105** 315–322 (2009). SLAC-PUB-13454, [arXiv:0811.0875 \[hep-ph\]](#).
- E: Brodsky, Stanley J. and Goldhaber, Alfred S. and Kopeliovich, Boris Z. and Schmidt, Ivan: *Higgs Hadroproduction at Large Feynman x.* *Nucl. Phys. B* **807** 334–347 (2009). USM-TH-214, SLAC-PUB-12664, [arXiv:0707.4658 \[hep-ph\]](#).
- T: Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish).* [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E: Bernotas, Andrius and Simonis, Vytautas: *Heavy hadron spectroscopy and the bag model.* *Lith. J. Phys.* **49** 19–28 (2009). [arXiv:0808.1220 \[hep-ph\]](#).
- E: Azizi, K. and Bayar, M. and Sarac, Y. and Sundu, H.: *Semileptonic $\Lambda_{cb}(b,c)$ to Nucleon Transitions in Full QCD at Light Cone.* *Phys. Rev. D* **80** 096007 (2009). [arXiv:0908.1758 \[hep-ph\]](#).

- E: Azizi, K. and Bayar, M. and Ozpineci, A. and Sarac, Y.: *Tree Level Semileptonic Sigma(b) to Nucleon Decay in Light Cone QCD Sum Rules*. *Phys. Rev. D* 80 036007 (2009). [arXiv:0907.4774 \[hep-ph\]](#).
- E: Asner, D. M. and others: *Charm Physics Bibliography*. *Int. J. Mod. Phys. A* 24S1 685–705 (2009).
- E: Asner, D. M. and others: *Physics at BES-III*. *Int. J. Mod. Phys. A* 24 S1–794 (2009). IHEP-PHYSICS-REPORT-BES-III-2008-001, [arXiv:0809.1869 \[hep-ex\]](#).
- E: Zhang, Jian-Rong and Huang, Ming-Qiu: *Doubly heavy baryons in QCD sum rules*. *Phys. Rev. D* 78 094007 (2008). [arXiv:0810.5396 \[hep-ph\]](#).
- E: Yang, Youchang and Deng, Chengrong and Huang, Hongxia and Ping, Jialun: *Dynamical study of heavy-baryon spectroscopy*. *Mod. Phys. Lett. A* 23 1819–1828 (2008).
- E: Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Lattice QCD study of the heavy-heavy-light quark potential*. *Phys. Rev. D* 78 014513 (2008). [arXiv:0806.3554 \[hep-lat\]](#).
- E: Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Heavy-heavy-light quark potential in two approaches*. *Prog. Theor. Phys. Suppl.* 174 270–273 (2008). [arXiv:0805.4735 \[hep-ph\]](#).
- E: Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Heavy-heavy-light quark potential in SU(3) lattice QCD*. *Phys. Lett. B* 664 129–132 (2008). [arXiv:0708.3610 \[hep-lat\]](#).
- E: Yamamoto, Arata and Suganuma, Hideo: *Quark motional effects on the inter-quark potential in baryons*. *Phys. Rev. D* 77 014036 (2008). [arXiv:0709.0171 \[hep-ph\]](#).
- E: Valcarce, A. and Garcilazo, H. and Vijande, J.: *Towards an understanding of heavy baryon spectroscopy*. *Eur. Phys. J. A* 37 217–225 (2008). [arXiv:0807.2973 \[hep-ph\]](#).
- E: Valcarce, A. and Vijande, J. and Gonzalez, P. and Garcilazo, H.: *Hadron physics: A Quark-model analysis*. *AIP Conf. Proc.* 1056 47–54 (2008). [arXiv:0807.0394 \[hep-ph\]](#).
- E: Roberts, W. and Pervin, Muslema: *Heavy baryons in a quark model*. *Int. J. Mod. Phys. A* 23 2817–2860 (2008). JLAB-THY-07-751, [arXiv:0711.2492 \[nucl-th\]](#).
- E: Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* 667 1–1340 (2008).
- E: Martynenko, A. P.: *Ground-state triply and doubly heavy baryons in a relativistic three-quark model*. *Phys. Lett. B* 663 317–321 (2008). SSU-HEP-07-8, [arXiv:0708.2033 \[hep-ph\]](#).
- E: Majethiya, Ajay and Patel, Bhavin and Rai, Ajay Kumar and Vinodkumar, P. C.: *Properties of doubly charmed baryons in the quark-diquark model*. (2008). [arXiv:0809.4910 \[hep-ph\]](#).
- E: Liu, Xiang and Ke, Hong-Wei and Qiao, Qing-Peng and Wei, Zheng-Tao and Li, Xue-Qian: *A Possibility of Search for New Physics at LHCb*. *Phys. Rev. D* 77 035014 (2008). [arXiv:0710.2600 \[hep-ph\]](#).
- E: Lee, Su Houng and Yasui, Shigehiro and Liu, Wei and Ko, Che Ming: *Charmed exotics in Heavy Ion Collisions*. *Eur. Phys. J. C* 54 259–265 (2008). [arXiv:0707.1747 \[hep-ph\]](#).
- E: Hwang, Chien-Wen and Chung, Ching-Ho: *Isospin mass splittings of heavy baryons in HQS*. *Phys. Rev. D* 78 073013 (2008). [arXiv:0804.4044 \[hep-ph\]](#).
- T: Hohler, Paul M.: *Phenomenological aspects of heavy quark systems*. (2008).
- E: Guo, Xin-Heng and Wei, Ke-Wei and Wu, Xing-Hua: *Some mass relations for mesons and baryons in Regge phenomenology*. *Phys. Rev. D* 78 056005 (2008). [arXiv:0809.1702 \[hep-ph\]](#).
- E: Guo, Xin-Heng and Wei, Ke-Wei and Wu, Xing-Hua: *Strong decays of heavy baryons in Bethe-Salpeter formalism*. *Phys. Rev. D* 77 036003 (2008). [arXiv:0710.1474 \[hep-ph\]](#).
- E: Yang, Zhong-Juan and Yao, Tao: *Doubly heavy baryon production at polarized photon collider*. *Chin. Phys. Lett.* 24 3378–3380 (2007). SDU-HEP-200705, [arXiv:0710.0051 \[hep-ph\]](#).
- E: Vijande, J. and Weissman, E. and Valcarce, A. and Barnea, N.: *Are there compact heavy four-quark bound states?* *Phys. Rev. D* 76 094027 (2007). [arXiv:0710.2516 \[hep-ph\]](#).
- E: Valcarce, A. and Vijande, J. and Barnea, N.: *Charm physics: Hints for a mature description of hadrons*. (2007). [arXiv:0711.3114 \[hep-ph\]](#).
- E: Vairo, Antonio: *Heavy quarkonium physics from effective field theories*. *Eur. Phys. J. A* 31 728 (2007). IFUM-878-FT, [arXiv:hep-ph/0610251](#).
- A: Russ, James S.: *A decade with SELEX: New results from an old experiment*. *AIP Conf. Proc.* 917 315–320 (2007).
- E: Petersen, Brian Aa., BaBar Collaboration: *Charm and Charmonium Spectroscopy*. *Nucl. Phys. B Proc. Suppl.* 167 87–90 (2007). SLAC-PUB-12166, BABAR-PROC-06-036, [arXiv:hep-ex/0609030](#).
- T: Majewski, Stephanie A.: *Study of B-Meson Decays to Final States with a Single Charm Baryon*. [doi:10.2172/953857](#) (2007). SLAC-R-923.
- E: Li, Shi-Yuan and Si, Zong-Guo and Yang, Zhong-Juan: *Doubly heavy baryon production at gamma gamma collider*. *Phys. Lett. B* 648 284–288 (2007). SDU-HEP200701, [arXiv:hep-ph/0701212](#).
- T: Frömel, Frank: *Short-range correlations in quark and nuclear matter*. (2007).
- T: Edwards, Adam J.: *A Study of Double-Charm and Charm-Strange Baryons in Electron-Positron Annihilations*. (2007). SLAC-R-883.

- E: Chang, Chao-Hsi and Wang, Jian-Xiong and Wu, Xing-Gang: *GENXICC: A Generator for hadronic production of the double heavy baryons $\Xi(cc)$, $\Xi(bc)$ and $\Xi(bb)$* . *Comput. Phys. Commun.* **177** 467–478 (2007). [arXiv:hep-ph/0702054](#).
- E: Chang, Chao-Hsi and Ma, Jian-Ping and Qiao, Cong-Feng and Wu, Xing-Gang: *Hadronic production of the doubly charmed baryon $\Xi(cc)$ with intrinsic charm*. *J. Phys. G* **34** 845 (2007). [arXiv:hep-ph/0610205](#).
- E: Buccella, Franco and Hogaasen, Hallstein and Richard, Jean-Marc and Sorba, Paul: *Chromomagnetism, flavour symmetry breaking and S-wave tetraquarks*. *Eur. Phys. J. C* **49** 743–754 (2007). DSF-13-2006, LAPTH-1150-06, LPSC-06-37, [arXiv:hep-ph/0608001](#).
- E: Brodsky, Stanley J.: *Novel QCD Phenomena*. *High-pT physics at LHC. Proceedings of Science LHC07 002* (2007). SLAC-PUB-12632, [arXiv:0707.2643 \[hep-ph\]](#).
- E: Baltz, A. and others: *Photoproduction at collider energies: From RHIC and HERA to the LHC*. (2007). [arXiv:hep-ph/0702212](#).
- T: Ananikyan, Lev: *Spin effects in quantum chromodynamics and recurrence lattices with multi-site exchanges*. (2007). [arXiv:0705.1932 \[cond-mat.stat-mech\]](#).
- E: Ananikyan, L. N. and Ivanov, N. Ya.: *Azimuthal Asymmetries in DIS as a Probe of Intrinsic Charm Content of the Proton*. *Nucl. Phys. B* **762** 256–283 (2007). [arXiv:hep-ph/0701076](#).
- E: Vijande, J. and Garcilazo, H. and Valcarce, A. and Fernandez, F.: *Spectroscopy of doubly charmed baryons*. *AIP Conf. Proc.* **814** 284–288 (2006).
- E: Vairo, Antonio: *Heavy Hadron Spectroscopy*. *Conf. Proc. C 060726* 71–80 (2006). IFUM-879-FT, [arXiv:hep-ph/0611310](#).
- E: Soffer, Jacques: *A New search strategy for the Higgs boson*. *Int. J. Mod. Phys. A* **21** 934–937 (2006). CPT-2005-P-044, [arXiv:hep-ph/0509325](#).
- E: Scadron, M. D. and Delbourgo, Robert and Rupp, G.: *Constituent quark masses and the electroweak standard model*. *J. Phys. G* **32** 735–745 (2006). [arXiv:hep-ph/0603196](#).
- E: Rosner, Jonathan L.: *Hadron spectroscopy: A 2005 snapshot*. *AIP Conf. Proc.* **815** 218–232 (2006). EFI-05-10, [arXiv:hep-ph/0508155](#).
- E: Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E: Na, Heechang and Gottlieb, Steven: *Heavy baryon mass spectrum from lattice QCD with 2+1 flavors*. *XXIVth International Symposium on Lattice Field Theory. Proceedings of Science LAT2006* 191 (2006). [arXiv:hep-lat/0610009](#).
- E: Mehen, Thomas and Tiburzi, Brian C.: *Doubly heavy baryons and quark-diquark symmetry in quenched and partially quenched chiral perturbation theory*. *Phys. Rev. D* **74** 054505 (2006). JLAB-THY-06-531, [arXiv:hep-lat/0607023](#).
- E: Meadows, Brian T.: *Charm decays at B factories*. *Int. J. Mod. Phys. A* **21** 5436–5444 (2006).
- E: Jia, Yu: *Variational study of weakly coupled triply heavy baryons*. *JHEP* **10** 073 (2006). [arXiv:hep-ph/0607290](#).
- E: Hu, Jie and Mehen, Thomas: *Chiral Lagrangian with heavy quark-diquark symmetry*. *Phys. Rev. D* **73** 054003 (2006). JLAB-THY-05-452, [arXiv:hep-ph/0511321](#).
- E: Fleming, Sean and Mehen, Thomas: *Doubly heavy baryons, heavy quark-diquark symmetry and NRQCD*. *Phys. Rev. D* **73** 034502 (2006). JLAB-THY-05-415, [arXiv:hep-ph/0509313](#).
- A: Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons*. eConf C0610161 003 (2006). FERMILAB-CONF-07-029-E, HQL-2006-003, UASLP-IF-07-001, FERMILAB-Conf-07/029-E, [arXiv:hep-ex/0702001](#).
- E: Cohen, Thomas D. and Hohler, Paul M.: *Doubly heavy hadrons and the domain of validity of doubly heavy diquark-anti-quark symmetry*. *Phys. Rev. D* **74** 094003 (2006). DOE-ER-40762-363, [arXiv:hep-ph/0606084](#).
- E: Chen, Chuan-Hung: *Production of doubly charmed baryons in B decays*. *Phys. Lett. B* **638** 214–220 (2006). [arXiv:hep-ph/0603070](#).
- E: Chang, Chao-Hsi and Qiao, Cong-Feng and Wang, Jian-Xiong and Wu, Xing-Gang: *Estimate of the hadronic production of the doubly charmed baryon $\Xi(cc)$ under GM-VFN scheme*. *Phys. Rev. D* **73** 094022 (2006). [arXiv:hep-ph/0601032](#).
- E: Brodsky, Stanley J. and Kopeliovich, Boris and Schmidt, Ivan and Soffer, Jacques: *Diffraction Higgs production from intrinsic heavy flavors in the proton*. *Phys. Rev. D* **73** 113005 (2006). SLAC-PUB-11784, USM-TH-181, CPT-2005-P-021, [arXiv:hep-ph/0603238](#).
- E: Brambilla, Nora: *NRQCD and Quarkonia*. eConf C0610161 004 (2006). HQL-2006-004, [arXiv:hep-ph/0702105](#).
- E: Aubert, Bernard and others, BaBar Collaboration: *Search for doubly charmed baryons $\Xi(cc)^+$ and $\Xi(cc)^{++}$ in BABAR*. *Phys. Rev. D* **74** 011103 (2006). SLAC-PUB-11866, BABAR-PUB-06-031, [arXiv:hep-ex/0605075](#).
- E: Soto, J.: *Heavy quarks*. *AIP Conf. Proc.* **756** 204–209 (2005).
- E: Richard, J. -M. and Stancu, Fl.: *Double charm hadrons revisited*. *Bled Workshops Phys.* **6** 25–31 (2005). [arXiv:hep-ph/0511043](#).

- E: Nowak, Maciej A.: *Status of chiral doublers of heavy-light hadrons in light of recent BABAR CLEO, BELLE and SELEX $D(s)$ states*. *Int. J. Mod. Phys. A* **20** 229–230 (2005). [arXiv:hep-ph/0407272](#).
- E: Kostyuk, A. P.: *Double, triple and hidden charm production in the statistical coalescence model*. (2005). [arXiv:nucl-th/0502005](#).
- E: Froemel, F. and Julia-Diaz, B. and Riska, D. O.: *Bound states of double flavor hyperons*. *Nucl. Phys. A* **750** 337–356 (2005). [arXiv:nucl-th/0410034](#).
- A: Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons*. *AIP Conf. Proc.* **756** 192–194 (2005).
- A: Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons*. *Nucl. Phys. A* **752** 121–128 (2005).
- E: Chang, Chao-Hsi and Qiao, Cong-Feng and Wang, Jian-Xiong and Wu, Xing-Gang: *Hadronic production of $B_c(B_c^*)$ meson induced by the heavy quarks inside the collision hadrons*. *Phys. Rev. D* **72** 114009 (2005). [arXiv:hep-ph/0509040](#).
- E: Brodsky, Stanley J.: *Large x Physics*. *AIP Conf. Proc.* **792** 977–980 (2005). SLAC-PUB-11304.
- E: Brodsky, Stanley J.: *Novel aspects of QCD in lepton production*. *Eur. Phys. J. A* **24S1** 129–135 (2005). SLAC-PUB-10778, [arXiv:hep-ph/0411029](#).
- E: Brodsky, Stanley J.: *Applications of light-front QCD*. *Nucl. Phys. B Proc. Suppl.* **141** 77–85 (2005). SLAC-PUB-10574, [arXiv:hep-ph/0408071](#).
- E: Brodsky, Stanley J.: *Novel QCD aspects of hard diffraction, antishadowing, and single-spin asymmetries*. *Acta Phys. Polon. B* **36** 635–656 (2005). SLAC-PUB-10777, [arXiv:hep-ph/0411028](#).
- E: Brodsky, Stanley J.: *New results in light-front phenomenology*. *Few Body Syst.* **36** 35–52 (2005). SLAC-PUB-10812, [arXiv:hep-ph/0411056](#).
- E: Brodsky, Stanley J.: *Testing quantum chromodynamics with antiprotons*. [doi:10.1393/ncr/i2007-10014-x](#) (2005). SLAC-PUB-10811, [arXiv:hep-ph/0411046](#).
- E: Brambilla, Nora and Vairo, Antonio and Rosch, Thomas: *Effective field theory Lagrangians for baryons with two and three heavy quarks*. *Phys. Rev. D* **72** 034021 (2005). IFUM-808-FT, [arXiv:hep-ph/0506065](#).
- E: Vijande, J. and Garcilazo, H. and Valcarce, A. and Fernandez, F.: *Spectroscopy of doubly charmed baryons*. *Phys. Rev. D* **70** 054022 (2004). [arXiv:hep-ph/0408274](#).
- E: Riska, D.O.: *The Double-Charm Hyperons and Their Interactions*. Bled Workshops in Physics 5 58-61 (2004).
- E: Brambilla, N. and others, Quarkonium Working Group Collaboration: *Heavy Quarkonium Physics*. [doi:10.5170/CERN-2005-005](#) (2004). CERN-2005-005, CERN-2005-005, [arXiv:hep-ph/0412158](#).
- E: Paul, S.: *Physics with charmed hadrons*. (2004).
- E: Nussinov, Shmuel: *Now you see it, now you don't: The Pattern of production of certain resonances*. (2004). [arXiv:hep-ph/0408082](#).
- E: Nowak, Maciej A. and Praszalowicz, Michal and Sadzikowski, Mariusz and Wasiluk, Joanna: *Chiral doublers of heavy light baryons*. *Phys. Rev. D* **70** 031503 (2004). TPJU-4-2004, BNL-NTBNL-NT-04-10, [arXiv:hep-ph/0403184](#).
- A: Jun, Soon Yung, SELEX Collaboration: *New particle observations in SELEX*. (2004). FERMILAB-CONF-04-450-E.
- E: Evans, Harold G.: *Heavy flavor production in hadron collisions (with a few leptons and photons thrown in)*. eConf C0406271 MONT06 (2004). PIC-2004-MONT06, [arXiv:hep-ex/0408043](#).
- E: Brodsky, Stanley J.: *Light-front QCD*. (2004). SLAC-PUB-10871, [arXiv:hep-ph/0412101](#).
50. Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH*. *Nucl. Instrum. Meth. A* **553** 237–241 (2005).
- 3 Citations:
- A: Cooper, Peter S. and Engelfried, Jurgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* **639** 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171 \[physics.ins-det\]](#).
- A: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- A: Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
49. Estrada, N. and Engelfried, J. and Morelos Pineda, Antonio: *Ronchi test for flat mirrors*. *Nucl. Instrum. Meth. A* **553** 172–176 (2005).
- 4 Citations:
- E: Juarez-Salazar, Rigoberto: *Nonparaxial geometrical Ronchi test for spherical mirrors: an inverse ray-tracing approach*. *Applied Optics* **55** 5986-5993 (2016).

- A: Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- A: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- A: Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
48. Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons*. *Nucl. Phys. A* **752** 121–128 (2005).

33 Citations:

- E: Braaten, Eric and He, Li-Ping and Mohapatra, Abhishek: *Masses of doubly heavy tetraquarks with error bars*. *Phys. Rev. D* **103** 016001 (2021). [arXiv:2006.08650 \[hep-ph\]](#).
- T: Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons*. (2020).
- E: Delpasand, Mahdi and Moosavi Nejad, S. Mohammad: *Ω_{ccc} baryon production from gluon in vector diquark fragmentation*. *Eur. Phys. J. A* **56** 56 (2020).
- E: Alrebdi, H. I. and Aliev, T. M. and Şimşek, K.: *Determination of the strong vertices of doubly heavy baryons with pseudoscalar mesons in QCD*. *Phys. Rev. D* **102** 074007 (2020). [arXiv:2008.05098 \[hep-ph\]](#).
- E: Weng, Xin-Zhen and Chen, Xiao-Lin and Deng, Wei-Zhen: *Masses of doubly heavy-quark baryons in an extended chromomagnetic model*. *Phys. Rev. D* **97** 054008 (2018). [arXiv:1801.08644 \[hep-ph\]](#).
- E: Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E: Moosavi Nejad, S. Mohammad: *NLO QCD corrections to triply heavy baryon fragmentation function considering the effect of nonperturbative dynamics of baryon bound states*. *Phys. Rev. D* **96** 114021 (2017).
- E: Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest*. *Eur. Phys. J. C* **77** 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E: Thakkar, Kaushal and Majethiya, Ajay and Vinodkumar, P. C.: *Magnetic moments of baryons containing all heavy quarks in the quark-diquark model*. *Eur. Phys. J. Plus* **131** 339 (2016). [arXiv:1609.05444 \[hep-ph\]](#).
- E: Sun, Zhi-Feng and Vicente Vacas, M. J.: *Masses of doubly charmed baryons in the extended on-mass-shell renormalization scheme*. *Phys. Rev. D* **93** 094002 (2016). [arXiv:1602.04714 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Novel QCD physics at NICA*. *Eur. Phys. J. A* **52** 220 (2016).
- E: Sun, Zhi-Feng and Liu, Zhan-Wei and Liu, Xiang and Zhu, Shi-Lin: *Masses and axial currents of the doubly charmed baryons*. *Phys. Rev. D* **91** 094030 (2015). ADP-14-33-T892, [arXiv:1411.2117 \[hep-ph\]](#).
- T: Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- E: Aliev, T. M. and Azizi, K. and Savcı, M.: *Properties of triply heavy spin-3/2 baryons*. *J. Phys. G* **41** 065003 (2014). [arXiv:1404.2091 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savcı, M.: *Magnetic moments of Ξ'_Q - Ξ_Q transitions in light cone QCD*. *Phys. Rev. D* **89** 053005 (2014). METU-PHYS-HEP-14-02, [arXiv:1402.5283 \[hep-ph\]](#).
- E: Dhir, Rohit and Kim, C. S. and Verma, R. C.: *Magnetic Moments of Bottom Baryons: Effective mass and Screened Charge*. *Phys. Rev. D* **88** 094002 (2013). [arXiv:1309.4057 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Novel QCD Phenomena and New Perspectives for Hadron Physics*. (2013). SLAC-PUB-15823.
- E: Brodsky, Stanley J.: *Novel Heavy Quark Phenomena in QCD. XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* **013** (2013). SLAC-PUB-15883, [arXiv:1401.5886 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savcı, M.: *Masses and Residues of the Triply Heavy Spin-1/2 Baryons*. *JHEP* **04** 042 (2013). [arXiv:1212.6065 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savcı, M.: *The masses and residues of doubly heavy spin-3/2 baryons*. *J. Phys. G* **40** 065003 (2013). [arXiv:1208.1976 \[hep-ph\]](#).
- E: Brodsky, Stanley J.: *Hadron Physics at the Charm and Bottom Thresholds and Other Novel QCD Physics Topics at the NICA Accelerator Facility*. (2012). SLAC-PUB-15050.
- E: Brodsky, Stanley J.: *Novel Perspectives for Hadron Physics*. *Pontif. Acad. Sci. Scr. Varia* **119** 229–245 (2012). SLAC-PUB-14865, [arXiv:1202.5338 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savcı, M.: *Doubly Heavy Spin-1/2 Baryon Spectrum in QCD*. *Nucl. Phys. A* **895** 59–70 (2012). [arXiv:1205.2873 \[hep-ph\]](#).
- E: Brodsky, Stanley J. and Guo, Feng-Kun and Hanhart, Christoph and Meissner, Ulf-G.: *Isospin splittings of doubly heavy baryons*. *Phys. Lett. B* **698** 251–255 (2011). SLAC-PUB-14347, FZJ-IKP-TH-2011-01, [arXiv:1101.1983 \[hep-ph\]](#).
- E: Brodsky, Stanley and de Teramond, Guy and Karliner, Marek: *Puzzles in Hadronic Physics and Novel Quantum Chromodynamics Phenomenology*. *Ann. Rev. Nucl. Part. Sci.* **62** 2082 (2011). SLAC-PUB-15274, [arXiv:1302.5684 \[hep-ph\]](#).

- E:** Hofmann, J. and Lutz, M. F. M.: *D-wave baryon resonances with charm from coupled-channel dynamics*. *Nucl. Phys. A* **776** 17–51 (2006). [arXiv:hep-ph/0601249](#).
- A:** Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons*. eConf C0610161 003 (2006). FERMILAB-CONF-07-029-E, HQL-2006-003, UASLP-IF-07-001, FERMILAB-Conf-07/029-E, [arXiv:hep-ex/0702001](#).
- E:** Brodsky, Stanley J. and de Teramond, Guy F.: *Advances in Light-Front Quantization and New Perspectives for QCD from AdS/CFT*. *Nucl. Phys. B Proc. Suppl.* **161** 34–43 (2006). SLAC-PUB-11542.
- E:** Brodsky, Stanley J. and de Teramond, Guy F.: *Hadron spectroscopy and wavefunctions in QCD and the AdS/CFT correspondence*. *AIP Conf. Proc.* **814** 108–118 (2006). SLAC-PUB-11518, [arXiv:hep-ph/0510240](#).
- E:** Richard, J.-M. and Stancu, Fl.: *Double charm hadrons revisited*. Bled Workshops Phys. **6** 25–31 (2005). [arXiv:hep-ph/0511043](#).
- E:** Richard, Jean-Marc: *Recent issues in hadron spectroscopy*. *Nucl. Phys. A* **752** 129–138 (2005). [arXiv:nucl-th/0410070](#).
- E:** Hofmann, J. and Lutz, M. F. M.: *Coupled-channel study of crypto-exotic baryons with charm*. *Nucl. Phys. A* **763** 90–139 (2005). [arXiv:hep-ph/0507071](#).
- E:** Brodsky, Stanley J.: *Deep Inelastic Scattering at the Amplitude Level*. *AIP Conf. Proc.* **792** 1084–1088 (2005). SLAC-PUB-11307.
47. Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005).

7 Citations:

- E:** Križan, Peter: *RICH detectors: Analysis methods and their impact on physics*. *Nucl. Instrum. Meth. A* **876** 272–277 (2017).
- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- A:** Cooper, Peter S. and Engelfried, Jurgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* **639** 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171 \[physics.ins-det\]](#).
- E:** Kozhuharov, Venelin: *An Experimental Proposal To Measure $K^+ \rightarrow \pi^+ \nu \bar{\nu}$* . [doi:10.1007/978-1-4020-4965-1%5F6](#) (2006).
- A:** Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- A:** Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH*. *Nucl. Instrum. Meth. A* **553** 237–241 (2005). FERMILAB-CONF-05-607-CD.
- A:** Estrada, N. and Engelfried, J. and Morelos Pineda, Antonio: *Ronchi test for flat mirrors*. *Nucl. Instrum. Meth. A* **553** 172–176 (2005).

46. Adamovich, M. I. and others, WA89 Collaboration: *Search for the exotic $\Xi(1860)$ resonance in 340-GeV/c Sigma- nucleus interactions*. *Phys. Rev. C* **70** 022201 (2004). [arXiv:hep-ex/0405042](#).

88 Citations:

- E:** Park, Aaron and Park, Woosung and Lee, Su Hwang: *Heptaquarks with two heavy antiquarks in a simple chromomagnetic model*. *Phys. Rev. D* **96** 034029 (2017). [arXiv:1706.10025 \[hep-ph\]](#).
- E:** Abelev, Betty Bezverkhny and others, ALICE Collaboration: *Production of $\Sigma(1385)^\pm$ and $\Xi(1530)^0$ in proton-proton collisions at $\sqrt{s} = 7$ TeV*. *Eur. Phys. J. C* **75** 1 (2015). CERN-PH-EP-2014-128, [arXiv:1406.3206 \[nucl-ex\]](#).
- T:** Moritsu, Manabu: *Search for the Pentaquark Θ^+ via the $\pi^- p \rightarrow K^- X$ Reaction at J-PARC*. [doi:10.1007/978-981-10-0012-6](#) (2014).
- E:** Liu, Tianbo and Mao, Yajun and Ma, Bo-Qiang: *Present status on experimental search for pentaquarks*. *Int. J. Mod. Phys. A* **29** 1430020 (2014). [arXiv:1403.4455 \[hep-ex\]](#).
- E:** Egiyan, H. and others, CLAS Collaboration: *Upper limits for the photoproduction cross section for the $\Phi^{--}(1860)$ pentaquark state off the deuteron*. *Phys. Rev. C* **85** 015205 (2012). JLAB-PHY-11-1438, [arXiv:1109.1238 \[nucl-ex\]](#).
- T:** Sherwood, Daniel: *Search for the $R(3520)$ crypto-exotic state at BaBar*. (2008).
- E:** Scherer, Stefan and Bleicher, Marcus and Haussler, Stephane and Stocker, Horst: *Population of multi-quark states in exotic multiplets and thermalization in ultra-relativistic heavy ion collisions*. *Int. J. Mod. Phys. E* **17** 965–1014 (2008).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Link, J. M. and others, FOCUS Collaboration: *Search for a pentaquark decaying to Cascade- pi-*. *Phys. Lett. B* **661** 14–21 (2008). FERMILAB-PUB-07-409, [arXiv:0708.1010 \[hep-ex\]](#).

- E:** Fedorov, D. K. and Neudatchin, V. G. and Sviridova, L. L. and Smirnov, Yu. F.: *Potential of quasielastic meson knockout from a nucleon by high-energy electrons and pions for studying the structure of exotic excited states of a final-state baryon.* *Phys. Atom. Nucl.* **71** 525–538 (2008).
- T:** Del Degan, Marc A.: *Spectroscopy in ep scattering at HERA.* (2008). ETHZ-IPP-RP-2008-08.
- E:** Danilov, Michael and Mizuk, Roman: *Experimental review on pentaquarks.* *Phys. Atom. Nucl.* **71** 605–617 (2008). ITEP-06-07, [arXiv:0704.3531 \[hep-ex\]](#).
- E:** Zhang, Ai-Lin: *Review on the study of multiquark states.* *HEPNP* **31** 792–796 (2007).
- E:** Rossi, Patrizia, CLAS Collaboration: *Pentaquark search at CLAS.* [doi:10.3204/proc07-01/199](#) (2007). JLAB-PHY-07-771.
- E:** Rossi, P.: *Pentaquark Searches at Jlab.* *Nucl. Phys. B Proc. Suppl.* **164** 121–126 (2007). JLAB-PHY-05-487.
- E:** Pirjol, Dan and Schat, Carlos: *Positive parity pentaquark towers in large $N(c)$ QCD.* *Phys. Rev. D* **75** 076004 (2007). [arXiv:hep-ph/0612314](#).
- E:** Aktas, A. and others, H1 Collaboration: *Search for baryonic resonances decaying to Xi pi in deep-inelastic scattering at HERA.* *Eur. Phys. J. C* **52** 507–514 (2007). DESY-07-045, [arXiv:0704.3594 \[hep-ex\]](#).
- E:** Del Degan, Marc: *Search for baryonic resonances decaying to Xi pi in deep-inelastic scattering at HERA.* [doi:10.3204/proc07-01/198](#) (2007).
- E:** Abulencia, A. and others, CDF Collaboration: *Search for Exotic $S=-2$ Baryons in proton-antiproton Collisions at $\sqrt{s} = 1.96$ TeV.* *Phys. Rev. D* **75** 032003 (2007). FERMILAB-PUB-06-488-E, [arXiv:hep-ex/0612066](#).
- E:** Schumacher, Reinhard A.: *The Rise and fall of pentaquarks in experiments.* *AIP Conf. Proc.* **842** 409–417 (2006). [arXiv:nucl-ex/0512042](#).
- T:** Sbrizzi, Antonello: *Beauty and a Search for Pentaquarks at HERA-B.* (2006). THESIS-SBRIZZI, CERN-THESIS-2007-160.
- T:** Rubáček, Lukas: *Search for the Pentaquark states in Lepton-Nucleon Scattering at HERMES.* [doi:10.3204/DESY-THESIS-2006-014](#) (2006). DESY-THESIS-2006-014.
- E:** Reyes, M. A. and others: *Exotic baryon searches in 800-GeV/c $p p \rightarrow p X$.* *AIP Conf. Proc.* **814** 356–360 (2006).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *J. Phys. G* **33** 1–1232 (2006).
- E:** Oh, Yongseok and Nakayama, K. and Lee, T. -S. H.: *Pentaquark $\Theta^+(1540)$ production in $\gamma N \rightarrow K$ anti- $K N$.* *Phys. Rept.* **423** 49–89 (2006). [arXiv:hep-ph/0412363](#).
- E:** Nakayama, K. and Oh, Yongseok and Habermehl, H.: *Photoproduction of Xi off nucleons.* *Phys. Rev. C* **74** 035205 (2006). [arXiv:hep-ph/0605169](#).
- T:** Ma, Jingguo: *Measurement of phi meson production and searches for pentaquark particles from the STAR experiment at RHIC.* (2006). [UMI-32-34385](#).
- E:** Liu, Fu-Ming and Werner, Klaus: *Microcanonical pentaquark production in $e^+ e^-$ annihilations.* *Phys. Rev. D* **74** 034024 (2006). [arXiv:hep-ph/0507051](#).
- T:** Kose, Umut: *Antineutrino charm production and pentaquark search in the CHORUS experiment.* (2006). CERN-THESIS-2006-065.
- T:** Hyodo, Tetsuo: *Exotics in meson-baryon dynamics with chiral symmetry.* (2006).
- E:** Haghpayma, A. R.: *A Review of the pentaquark Θ^+ properties.* (2006). [arXiv:hep-ph/0606214](#).
- E:** Eidemuller, Markus: *Pentaquark from QCD sum rules: Consequences of the diquark approach.* *Nucl. Phys. B Proc. Suppl.* **152** 232–235 (2006). IFIC-04-45, FTUV-04-0803, [arXiv:hep-ph/0408032](#).
- E:** Dohrmann, F.: *Production of strangeness in hot and cold nuclear matter induced by both leptonic and hadronic projectiles.* *Int. J. Mod. Phys. E* **15** 761–851 (2006).
- E:** Niccolai, S. and others, CLAS Collaboration: *Search for the Θ^+ pentaquark in the $\gamma d \rightarrow \Lambda n K^+$ reaction measured with CLAS.* *Phys. Rev. Lett.* **97** 032001 (2006). JLAB-PHY-06-462, [arXiv:hep-ex/0604047](#).
- E:** Battaglieri, M. and others, CLAS Collaboration: *Search for $\Theta^+(1540)$ pentaquark in high statistics measurement of $\gamma p \rightarrow \text{anti-}K^0 K^+ n$ at CLAS.* *Phys. Rev. Lett.* **96** 042001 (2006). DAPNIA-06-01, JLAB-PHY-05-20, [arXiv:hep-ex/0510061](#).
- E:** Burkert, Volker D.: *Have pentaquark states been seen?.* *Int. J. Mod. Phys. A* **21** 1764–1777 (2006). JLAB-PHY-05-442, [arXiv:hep-ph/0510309](#).
- E:** Bauer, G.: *The $x(3872)$ meson and exotic spectroscopy at CDF II.* *Int. J. Mod. Phys. A* **21** 959–994 (2006). [arXiv:hep-ex/0505083](#).
- E:** Battaglieri, M. and De Vita, R. and Kubarovsky, V., CLAS Collaboration: *Pentaquarks: The Latest experimental results.* *AIP Conf. Proc.* **806** 48–56 (2006). JLAB-PHY-06-10.
- E:** Battaglieri, M. and De Vita, R. and Kubarovsky, V. and Stoler, P., CLAS Collaboration: *Search for Pentaquarks with CLAS.* *AIP Conf. Proc.* **815** 233–242 (2006). JLAB-PHY-06-09.
- E:** Chekanov, S. and others, ZEUS Collaboration: *Search for pentaquarks decaying to Xi-pi in deep inelastic scattering at HERA.* *Phys. Lett. B* **610** 212–224 (2005). DESY-05-018, [arXiv:hep-ex/0501069](#).

- E: Zavertyaev, M., WA89, COMPASS Collaboration: *A search for pentaquark candidates in experiments WA89 and COMPASS*. *Nucl. Phys. A* **755** 387–390 (2005).
- T: Wessling, Margaret E.: *Heavy pentaquarks in the diquark model and the large $N(c)$ expansion*. (2005). UMI-31-80598, CALT-68-2561, [arXiv:hep-ph/0505213](#).
- A: Adamovich, M. I. and others, WA89 Collaboration: *Search for the pentaquark candidate $\Theta(1540)^+$ in the hyperon beam experiment WA89*. *Phys. Rev. C* **72** 055201 (2005). [arXiv:hep-ex/0510013](#).
- E: Stancu, Fl.: *The Discovery and properties of pentaquarks*. *Int. J. Mod. Phys. A* **20** 209–218 (2005). [arXiv:hep-ph/0408042](#).
- E: Spengler, Joachim, HERA-B Collaboration: *Search for pentaquarks with HERA-B*. *Acta Phys. Polon. B* **36** 2223–2232 (2005). [arXiv:hep-ex/0504038](#).
- E: Sbrizzi, A. and Bauer, T. S.: *Have pentaquarks been seen?*. *AIP Conf. Proc.* **768** 226–228 (2005).
- E: Rossi, P., CLAS Collaboration: *The experimental search for the Θ^+ in the $\gamma d \rightarrow \Theta^+ \Lambda$ reaction with CLAS*. *Nucl. Phys. A* **755** 371–374 (2005). JLAB-PHY-05-22.
- E: Rossi, P., CLAS Collaboration: *The Experimental search for pentaquark*. *Nucl. Phys. A* **752** 111–120 (2005). JLAB-PHY-04-70, [arXiv:hep-ex/0409057](#).
- E: Rossi, P., CLAS Collaboration: *Pentaquark search at Jefferson laboratory*. *Czech. J. Phys.* **55** A131–A142 (2005).
- E: Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. *Nucl. Phys. A* **754** 430–442 (2005).
- E: Panda, P. K. and Providencia, C. and Menezes, D. P.: *Pentaquarks in the medium in the quark-meson coupling model*. *Phys. Rev. C* **72** 058201 (2005). [arXiv:nucl-th/0508007](#).
- E: Li, Hu and Shakin, C. M. and Li, Xiang-dong: *Relativistic model of triquark structure*. (2005). BCCNT-05-607-335, [arXiv:nucl-th/0506062](#).
- E: Li, Hu and Shakin, C. M. and Li, Xiang-dong: *Relativistic calculation of pentaquark widths*. (2005). BCCNT-05-401-334, [arXiv:hep-ph/0504125](#).
- E: Kwee, H. and Guidal, M. and Polyakov, M. V. and Vanderhaeghen, M.: *Photoproduction of the Θ^+ resonance on the nucleon in a Regge model*. *Phys. Rev. D* **72** 054012 (2005). WM-05-115, JLAB-THY-05-403, [arXiv:hep-ph/0507180](#).
- E: Kubarovsky, Valery and Stoler, Paul, CLAS Collaboration: *Status of pentaquark search at JLab*. *Nucl. Phys. B Proc. Suppl.* **142** 356–363 (2005). JLAB-PHY-04-323, [arXiv:hep-ex/0409025](#).
- E: Kopeliovich, V. B. and Shunderuk, A. M.: *Flavored exotic multibaryons and hypernuclei in topological soliton models*. *J. Exp. Theor. Phys.* **100** 929–948 (2005). [arXiv:nucl-th/0409010](#).
- E: Kim, Hungchong and Oh, Yongseok: *Pentaquarks in $SU(3)$ quark model*. (2005). [arXiv:hep-ph/0507165](#).
- E: Karliner, Marek and Lipkin, Harry J.: *On a possible tetraquark cousin of the Θ^+* . *Phys. Lett. B* **612** 197–200 (2005). CAVENDISH-HEP-04-30, TAUP-2788-04, WIS-25-04-SEPT-DPP, ANL-HEP-PR-04-113, [arXiv:hep-ph/0411136](#).
- E: Kabana, Sonia: *Review of the experimental evidence on pentaquarks and critical discussion*. *AIP Conf. Proc.* **756** 195–200 (2005). [arXiv:hep-ex/0503020](#).
- T: Junkersfeld, Jörg: *Photoproduktion von $\pi^0\omega$ and Protonen bei Energien bis zu 3 GeV*. (2005). Ph.D. Thesis, Universität Bonn.
- E: Jimenez Delgado, P.: *Pentaquark masses and magnetic moments in a quark cluster approach*. *Few Body Syst.* **37** 215–229 (2005). [arXiv:hep-ph/0409128](#).
- E: Hosaka, A. and Hyodo, T. and Llanes-Estrada, Felipe J. and Oset, E. and Pelaez, J. R. and Vicente Vacas, M. J.: *Two-meson cloud contribution to the baryon antidecuplet binding*. *Phys. Rev. C* **71** 045205 (2005). [arXiv:hep-ph/0411311](#).
- E: Hicks, Kenneth H.: *Experimental search for pentaquarks*. *Prog. Part. Nucl. Phys.* **55** 647–676 (2005). [arXiv:hep-ex/0504027](#).
- E: Airapetian, A. and others, HERMES Collaboration: *Search for an exotic $S = -2$, $Q = -2$ baryon resonance at a mass near 1862-MeV in quasi-real photoproduction*. *Phys. Rev. D* **71** 032004 (2005). DESY-04-239, [arXiv:hep-ex/0412027](#).
- E: Christian, D. C. and others, E690 Collaboration: *Search for exotic baryons in 800-GeV $pp \rightarrow p \Xi^+ \pi^-$* . *Phys. Rev. Lett.* **95** 152001 (2005). FERMILAB-PUB-05-315-E, [arXiv:hep-ex/0507056](#).
- E: Dzierba, Alex R. and Meyer, Curtis A. and Szczepaniak, Adam P.: *Reviewing the evidence for pentaquarks*. *J. Phys. Conf. Ser.* **9** 192–204 (2005). [arXiv:hep-ex/0412077](#).
- E: Dmitrasinovic, Veljko: *Kobayashi-Kondo-Maskawa- t Hooft interaction in pentaquarks*. *Phys. Rev. D* **71** 094003 (2005).
- E: Danilov, Michael: *Experimental review on pentaquarks*. *Frascati Phys. Ser.* **39** 193–209 (2005). [arXiv:hep-ex/0509012](#).
- E: Csikor, F. and Katz, S. D. and Fodor, Z. and Kovacs, T. G.: *Exotic baryons on the lattice*. *Acta Phys. Polon. B* **36** 2271–2282 (2005).
- E: Csikor, F. and Fodor, Z. and Katz, S. D. and Kovacs, T. G.: *Pentaquark hadrons from lattice QCD*. *Int. J. Mod. Phys. A* **20** 4562–4572 (2005).

- E:** Ageev, E. S. and others, COMPASS Collaboration: *Search for the $\Phi(1860)$ pentaquark at COMPASS.* *Eur. Phys. J. C* **41** 469–474 (2005). DAPNIA-05-29, CERN-PH-EP-2005-009, [arXiv:hep-ex/0503033](#).
- T:** Coleman, Jonathon P.: *Search for the $\Theta_5(1540)^+$ strange-pentaquark candidate in e^+e^- annihilation, hadroproduction and electroproduction with the BaBar detector.* (2005).
- T:** Coleman, Jonathon P.: *Searches for the $\Theta_5(1540)^+$ Strange-Pentaquark Candidate in e^+e^- Annihilation, Hadroproduction and Electroproduction with the BaBar Detector.* [doi:10.2172/970450](#) (2005). SLAC-R-925.
- E:** Burkert, V. D.: *The status of pentaquark baryons.* (2005). JLAB-PHY-05-490.
- E:** Airapetian, A., HERMES Collaboration: *Pentaquark searches at HERMES.* *AIP Conf. Proc.* **792** 677–680 (2005).
- E:** Airapetian, A., HERMES Collaboration: *Pentaquarks search at HERMES.* *Acta Phys. Polon. B* **36** 2213–2222 (2005).
- E:** Zhu, Shi-Lin: *Pentaquarks.* *Int. J. Mod. Phys. A* **19** 3439–3469 (2004). [arXiv:hep-ph/0406204](#).
- E:** Zhu, Shi-Lin: *Pentaquarks.* *AAPPS Bull.* **14** 14–20 (2004).
- E:** Weigel, H.: *Pentaquarks in a breathing mode approach to chiral solitons.* [doi:10.1142/9789812701855%5F0032](#) (2004). [arXiv:hep-ph/0410066](#).
- E:** Weigel, H.: *Pentaquarks and radially excited baryons.* [doi:10.1142/9789812702272%5F0011](#) (2004). [arXiv:hep-ph/0405285](#).
- E:** Richard, Jean-Marc: *Speculations in hadron spectroscopy.* [doi:10.1142/9789812701909%5F0011](#) (2004). LPSC-04-110, [arXiv:hep-ph/0412252](#).
- A:** Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work.* (2004). [arXiv:hep-ex/0406077](#).
- E:** Oh, Yong-seok and Kim, Hung-chong: *Pentaquark baryons in $SU(3)$ quark model.* *Phys. Rev. D* **70** 094022 (2004). [arXiv:hep-ph/0405010](#).
- E:** Oh, Yongseok and Kim, Hungchong: *Flavor structure of pentaquark baryons in quark model.* [doi:10.1142/9789812701855%5F0041](#) (2004). [arXiv:hep-ph/0409358](#).
- E:** Abt, I. and others, HERA-B Collaboration: *Limits for the central production of Θ^+ and Ξ^- pentaquarks in 920-GeV pA collisions.* *Phys. Rev. Lett.* **93** 212003 (2004). DESY-04-148, [arXiv:hep-ex/0408048](#).
- T:** Giordano, Francesca: *Search for heavy exotic states $\Xi_0(3/2) \rightarrow p \pi^- \pi^+ \pi^-$ and $\Xi^-(3/2) \rightarrow p \pi^- \pi^- \pi^+$ with the HERMES spectrometer.* (2004). DESY-HERMES-04-55.
- E:** Csikor, F. and Fodor, Z. and Katz, S. D. and Kovacs, T. G.: *The Status of pentaquark spectroscopy on the lattice.* [doi:10.1142/9789812702272%5F0006](#) (2004). ITP-BUDAPEST-612, WUB-04-06, [arXiv:hep-lat/0407033](#).
- E:** Borisjuk, D. L. and Kobushkin, A. P. and Kutafin, Yu. V.: *Spin and parity of $\Xi(3/2)$ exotic baryon from kaon scattering on the nucleon.* (2004). [arXiv:hep-ph/0408201](#).
45. Adamovich, M. I. and others, WA89 Collaboration: *A measurement of Ξ^- polarization in inclusive production by Σ^- of 340-GeV/c in C and Cu targets.* *Eur. Phys. J. C* **36** 315–321 (2004).

8 Citations:

- E:** Noda, Hujio and Tashiro, Tsutomu and Nakariki, Shin-Ichi: *Anti-hyperon Polarization in pA and Σ^-A Collisions and Intrinsic Antidiquark State in Incident Baryon.* *Int. J. Mod. Phys. E* **21** 1250001 (2012). [arXiv:1105.1588 \[hep-ph\]](#).
- E:** Abramov, V. V.: *Phenomenology of single-spin effects in hadron production at high energies.* *Phys. Atom. Nucl.* **72** 1872–1888 (2009).
- A:** Siebert, H. W.: *The challenge of polarizations in hadronic hyperon production.* *Eur. Phys. J. ST* **162** 147–153 (2008).
- E:** Tashiro, Tsutomu and Noda, Hujio and Nakariki, Shin-ichi and Fukuma, Kazumi: *Hyperon polarization in quark-diquark cascade model.* *Int. J. Mod. Phys. E* **16** 2344–2349 (2007).
- T:** Alekseev, Maxim: *Study of semi-inclusive processes using the COMPASS spectrometer with transversely polarized target.* (2007). CERN-THESIS-2007-124.
- T:** Grube, B.: *A trigger control system for COMPASS and a measurement of the transverse polarization of Λ and Ξ hyperons from quasi-real photo-production.* (2006). CERN-THESIS-2006-114.
- E:** Siebert, H. W., WA89 Collaboration: *A measurement of Λ and Ξ^- polarization in inclusive production by Σ^- of 340-GeV/c in C and Cu targets.* *Nucl. Phys. A* **755** 443–446 (2005).
- E:** Abramov, V. V. and others: *Single spin asymmetry in high $p(T)$ charged hadron production off nuclei at 40-GeV.* (2005). [arXiv:hep-ex/0412076](#).

44. Adamovich, M. I. and others, WA99 Collaboration: *A measurement of Λ polarization in inclusive production by Σ^- of 340-GeV/c in C and Cu targets.* *Eur. Phys. J. C* **32** 221–228 (2004).

19 Citations:

- T:** Nunez, Cynthia: *Studying Hyperon Polarization at the Large Hadron Collider Beauty Experiment.* (2024). CERN-THESIS-2024-290.
- E:** Gong, Wenjie and Parida, Ganesh and Tu, Zhoudunming and Venugopalan, Raju: *Measurement of Bell-type inequalities and quantum entanglement from Λ -hyperon spin correlations at high energy colliders.* *Phys. Rev. D* **106** L031501 (2022). [arXiv:2107.13007 \[hep-ph\]](#).
- E:** Airapetian, A. and others, HERMES Collaboration: *Transverse polarization of Λ hyperons from quasireal photoproduction on nuclei.* *Phys. Rev. D* **90** 072007 (2014). DESY-14-097, [arXiv:1406.3236 \[hep-ex\]](#).
- E:** Agakishiev, G. and others, HADES Collaboration: *Lambda hyperon production and polarization in collisions of $p(3.5\text{ GeV})+Nb$.* *Eur. Phys. J. A* **50** 81 (2014). [arXiv:1404.3014 \[nucl-ex\]](#).
- E:** Noda, Hujio and Tashiro, Tsutomu and Nakariki, Shin-Ichi: *Anti-hyperon Polarization in pA and Σ^-A Collisions and Intrinsic Antidiquark State in Incident Baryon.* *Int. J. Mod. Phys. E* **21** 1250001 (2012). [arXiv:1105.1588 \[hep-ph\]](#).
- E:** Belostotski, S. and Naryshkin, Yu. and Veretennikov, D., HERMES Collaboration: *Lambda polarization at HERMES.* *Nucl. Phys. B Proc. Suppl.* **210-211** 111–114 (2011).
- E:** Belostotski, Stan and Naryshkin, Yury and Veretennikov, Denis, HERMES Collaboration: *Measurement of the nuclear-mass dependence of spontaneous (transverse) Lambda polarisation in quasi-real photoproduction at HERMES.* *J. Phys. Conf. Ser.* **295** 012116 (2011).
- E:** Abramov, V. V.: *Phenomenology of single-spin effects in hadron production at high energies.* *Phys. Atom. Nucl.* **72** 1872–1888 (2009).
- E:** Siebert, H. W.: *The challenge of polarizations in hadronic hyperon production.* *Eur. Phys. J. ST* **162** 147–153 (2008).
- A:** Siebert, H. W.: *The challenge of correlations in hadronic production of $V0 V0$ pairs.* *Eur. Phys. J. ST* **162** 155–159 (2008).
- E:** Tashiro, Tsutomu and Noda, Hujio and Nakariki, Shin-ichi: *Hyperon polarization in $h-h$ and $h-A$ collisions and constituent quark-diquark picture.* *AIP Conf. Proc.* **915** 697–700 (2007).
- E:** Tashiro, Tsutomu and Noda, Hujio and Nakariki, Shin-ichi and Fukuma, Kazumi: *Hyperon polarization in quark-diquark cascade model.* *Int. J. Mod. Phys. E* **16** 2344–2349 (2007).
- E:** Sanchez-Lopez, J. L. and others, SELEX Collaboration: *Polarization of Λ^0 and $\bar{\Lambda}^0$ inclusively produced by 610-GeV/c Σ^- and 525-GeV/c proton beams.* (2007). FERMILAB-PUB-07-312-E, UASLP-IF-07-003, [arXiv:0706.3660 \[hep-ex\]](#).
- E:** Naryshkin, Yuri: *Measurement of transverse Lambda polarization in quasi-real photoproduction at HERMES.* [doi:10.3204/proc07-01/95](#) (2007).
- E:** Airapetian, A. and others, HERMES Collaboration: *Transverse Polarization of Lambda and anti-Lambda Hyperons in Quasireal Photoproduction.* *Phys. Rev. D* **76** 092008 (2007). DESY-07-036, [arXiv:0704.3133 \[hep-ex\]](#).
- T:** Alekseev, Maxim: *Study of semi-inclusive processes using the COMPASS spectrometer with transversely polarized target.* (2007). CERN-THESIS-2007-124.
- T:** Sanchez-Lopez, Jose Luis: *Polarization of λ and $\bar{\lambda}$ produced in σ - and proton - nucleon collisions.* (2006). [FERMILAB-MASTERS-2006-06](#).
- T:** Grube, B.: *A trigger control system for COMPASS and a measurement of the transverse polarization of Λ and Ξ hyperons from quasi-real photo-production.* (2006). CERN-THESIS-2006-114.
- E:** Siebert, H. W., WA99 Collaboration: *A measurement of Lambda and Xi- polarization in inclusive production by Sigma- of 340-GeV/c in C and Cu targets.* *Nucl. Phys. A* **755** 443–446 (2005).

43. Molchanov, V. V. and others, SELEX Collaboration: *Upper limit on the decay $\Sigma(1385)^- \rightarrow \Sigma^- \gamma$, and Cross Section for $\gamma \Sigma^- \rightarrow \Lambda \pi^-$.* *Phys. Lett. B* **590** 161–169 (2004). [arXiv:hep-ex/0402026](#).

32 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- E:** Ramalho, G. and Tsushima, K.: *Meson cloud contributions to the Dalitz decays of decuplet to octet baryons.* *Phys. Rev. D* **108** 074019 (2023). LFTC-23-5/78, [arXiv:2308.04773 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2022** 083C01 (2022).
- E:** Ramalho, G.: *Covariant model for Dalitz decays of decuplet baryons to octet baryons.* *Phys. Rev. D* **102** 054016 (2020). LFTC-20-01/53, [arXiv:2002.07280 \[hep-ph\]](#).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2020** 083C01 (2020).

- E:** Kim, June-Young and Kim, Hyun-Chul: *Electromagnetic transition form factors, $E2/M1$ and $C2/M1$ ratios of the baryon decuplet*. *Eur. Phys. J. C* **80** 1087 (2020). INHA-NTG-01/2020, [arXiv:2002.05980 \[hep-ph\]](#).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Ghalenovi, Zahra: *Study of Electromagnetic Properties of Light Baryons in the Hypercentral Approach*. *Int. J. Theor. Phys.* **57** 2628–2639 (2018). [arXiv:1707.01319 \[hep-ph\]](#).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- T:** Kim, Sang-Ho: *Reaction dynamics of strange and charm hadron productions*. [doi:10.18910/54028](#) (2015).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Ramalho, G. and Tsushima, K.: *Octet to decuplet electromagnetic transition in a relativistic quark model*. *Phys. Rev. D* **87** 093011 (2013). ADP-13-07-T827, [arXiv:1302.6889 \[hep-ph\]](#).
- E:** Ramalho, G. and Tsushima, K.: *What is the role of the meson cloud in the $\Sigma^{*0} \rightarrow \gamma\Lambda$ and $\Sigma^* \rightarrow \gamma\Sigma$ decays?*. *Phys. Rev. D* **88** 053002 (2013). [arXiv:1307.6840 \[hep-ph\]](#).
- E:** Kim, Sang-Ho and Nam, Seung-il and Hosaka, Atsushi and Kim, Hyun-Chul: *$K^*\Sigma$ photoproduction off the proton target with baryon resonances*. *Phys. Rev. D* **88** 054012 (2013). KIAS-P12072, INHA-NTG-05-2012, [arXiv:1211.6285 \[hep-ph\]](#).
- E:** Keller, D. and Hicks, K.: *U-spin predictions of the transition magnetic moments of the electromagnetic decay of the $\Sigma^*(1385)$ baryons*. *Eur. Phys. J. A* **49** 53 (2013).
- E:** Aliev, T. M. and Oktem, Y. and Savci, M.: *Electromagnetic transitions among octet and decuplet baryons in QCD*. *Phys. Rev. D* **88** 036002 (2013). METU-PHYS-HEP-08-13, [arXiv:1308.0697 \[hep-ph\]](#).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Keller, D. and others, CLAS Collaboration: *Branching Ratio of the Electromagnetic Decay of the $\Sigma^+(1385)$* . *Phys. Rev. D* **85** 052004 (2012). JLAB-PHY-11-1452, [arXiv:1111.5444 \[nucl-ex\]](#).
- E:** Thakkar, Kaushal and Patel, Bhavin and Majethiya, Ajay and Vinodkumar, P. C.: *Properties of Light Flavour Baryons in Hypercentral quark model*. *Pramana* **77** 1053–1067 (2011). [arXiv:1001.0849 \[hep-ph\]](#).
- T:** Yang, Ghil-Seok: *Properties of strange and non-strange members of baryon antidecuplet*. (2010).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Stanislaus, T. D. S. and others: *Measurement of the total cross section of the reaction $K-p \rightarrow \Sigma^0 \gamma$ between 514 and 750 MeV/c*. *Phys. Rev. C* **79** 015203 (2009).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Kim, Hyun-Chul and Yang, Ghil-Seok and Goeke, Klaus: *Magnetic and axial-vector transitions of the baryon antidecuplet*. *Prog. Theor. Phys. Suppl.* **168** 62–69 (2007). PNU-NTG-03-2007, [arXiv:0704.1777 \[hep-ph\]](#).
- T:** Bonomo, C.: *Hyperon production at the HERMES experiment*. (2007).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- T:** Hyodo, Tetsuo: *Exotics in meson-baryon dynamics with chiral symmetry*. (2006).
- E:** Aliev, T. M. and Ozpineci, A.: *Radiative decays of decuplet to octet baryons in light cone QCD*. *Nucl. Phys. B* **732** 291–320 (2006). [arXiv:hep-ph/0406331](#).
- E:** Kim, Hyun-Chul and Polyakov, Maxim and Praszalowicz, Michal and Yang, Ghil-Seok and Goeke, Klaus: *Exotic and nonexotic magnetic transitions in the context of the SELEX and GRAAL experiments*. *Phys. Rev. D* **71** 094023 (2005). PNU-NTG-04-2005, RUB-TP2-01-05, TPJU-1-2005, [arXiv:hep-ph/0503237](#).
- E:** Antipov, Yu. M. and others, SPHINX Collaboration: *Measurement of the radiative decay width $\Gamma[\Lambda(1520) \rightarrow \Lambda \gamma]$ with the SPHINX spectrometer*. *Phys. Lett. B* **604** 22–30 (2004). IHEP-2004-25, [arXiv:hep-ex/0406039](#).
- E:** Luk, Kam-Biu, FOCUS Collaboration: *Recent Results on Hyperon Physics*. (2004). Proceedings *Flavor Physics and CP Violation (FPCP2004)*, Daegu, Korea, 4-9 Oct 2004.
42. Evdokimov, A. V. and others, SELEX Collaboration: *First Observation of a Narrow Charm-Strange Meson $D_{sJ}^+(2632) \rightarrow D_s^+ \eta$ and $D^0 K^+$* . *Phys. Rev. Lett.* **93** 242001 (2004). [arXiv:hep-ex/0406045](#).

171 Citations:

- E:** Vogt, R.: *Tetraquarks from intrinsic heavy quarks*. *Phys. Rev. D* **110** 074036 (2024). [arXiv:2405.09018 \[hep-ph\]](#).

- E: Sonnenschein, Jacob and Green, Michal Michael: *Taming the Zoo of Tetraquarks and Pentaquarks using the HISH Model*. (2024). [arXiv:2401.01621 \[hep-ph\]](#).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. **Phys. Rev. D** **110** 030001 (2024).
- E: Liu, Jing and Guo, Quan-Yun and Wu, Qi and He, Jun and Chen, Dian-Yong: *Productions of bottom and bottom-strange mesons in pion and kaon induced reactions*. **Eur. Phys. J. C** **84** 1238 (2024). [arXiv:2408.10659 \[hep-ph\]](#).
- E: Dmitrašinović, V.: *Are LHCb exotics $T_{c\bar{s}0}(2900)^0$, $T_{c\bar{s}0}(2900)^{++}$ and $\bar{X}_0(2900)$ members of an $SU_F(3)$ 6-plet?*. (2023). [arXiv:2301.05471 \[hep-ph\]](#).
- E: Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *An updated review of the new hadron states*. **Rept. Prog. Phys.** **86** 026201 (2023). [arXiv:2204.02649 \[hep-ph\]](#).
- E: Wang, Guo-Li and Li, Wei and Feng, Tai-Fu and Wang, Ying-Long and Liu, Yu-Bin: *The newly observed state $D_{s0}(2590)^+$* . **Eur. Phys. J. C** **82** 267 (2022). [arXiv:2107.01751 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **PTEP** **2022** 083C01 (2022).
- E: Kanwal, Sadia and Akram, Faisal and Masud, Bilal and Swanson, E. S.: *Charmonium spectrum in an unquenched quark model*. **Eur. Phys. J. A** **58** 219 (2022). [arXiv:2211.08015 \[hep-ph\]](#).
- E: Chen, Xiaoyun and Tan, Yue and Chen, Yuan: *Study on Zcs and excited Bs0 states in the chiral quark model*. **Phys. Rev. D** **104** 014017 (2021). [arXiv:2103.07347 \[hep-ph\]](#).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **PTEP** **2020** 083C01 (2020).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **Phys. Rev. D** **98** 030001 (2018).
- E: Ghaleenovi, Zahra: *Masses of Charmed and Bottom Tetraquarks in the Non-Relativistic Quark Model*. **Int. J. Mod. Phys. Conf. Ser.** **46** 1860084 (2018).
- E: Tian, Yu and Zhao, Ze and Zhang, Ailin: *Study of radially excited $D_s(2^1S_0)$ and $D_s(3P)$* . **Chin. Phys. C** **41** 083107 (2017). [arXiv:1701.05678 \[hep-ph\]](#).
- E: Liu, Jing-Bin and Lu, Cai-Dian: *Spectra of heavy–light mesons in a relativistic model*. **Eur. Phys. J. C** **77** 312 (2017). [arXiv:1605.05550 \[hep-ph\]](#).
- E: Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *A review of the open charm and open bottom systems*. **Rept. Prog. Phys.** **80** 076201 (2017). [arXiv:1609.08928 \[hep-ph\]](#).
- E: Chen, Kan and Liu, Xiang and Wu, Jing and Liu, Yan-Rui and Zhu, Shi-Lin: *Triply heavy tetraquark states with the $QQ\bar{Q}\bar{q}$ configuration*. **Eur. Phys. J. A** **53** 5 (2017). [arXiv:1609.06117 \[hep-ph\]](#).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **Chin. Phys. C** **40** 100001 (2016).
- E: Liu, Jing-Bin and Yang, Mao-Zhi: *Heavy-Light Mesons In A Relativistic Model*. **Chin. Phys. C** **40** 073101 (2016). [arXiv:1507.08372 \[hep-ph\]](#).
- E: Ghaleenovi, Zahra and Giacosa, Francesco and Rischke, Dirk H.: *Masses of Heavy and Light Scalar Tetraquarks in a Non-Relativistic Quark Model*. **Acta Phys. Polon. B** **47** 1185 (2016). [arXiv:1507.03345 \[hep-ph\]](#).
- E: Chen, Wei and Chen, Hua-Xing and Liu, Xiang and Steele, T. G. and Zhu, Shi-Lin: *Decoding the $X(5568)$ as a fully open-flavor subd tetraquark state*. **Phys. Rev. Lett.** **117** 022002 (2016). [arXiv:1602.08916 \[hep-ph\]](#).
- E: Song, Qin-Tao and Chen, Dian-Yong and Liu, Xiang and Matsuki, Takayuki: *Charmed-strange mesons revisited: mass spectra and strong decays*. **Phys. Rev. D** **91** 054031 (2015). [arXiv:1501.03575 \[hep-ph\]](#).
- E: Liu, Jing-Bin and Yang, Mao-Zhi: *Spectrum of Higher excitations of B and D mesons in the relativistic potential model*. **Phys. Rev. D** **91** 094004 (2015). [arXiv:1501.04266 \[hep-ph\]](#).
- E: Li, Ning and Wu, Ya-Jie: *Mass spectra of D_s meson from $N_f = 2$ twisted mass lattice QCD*. **Mod. Phys. Lett. A** **30** 1550060 (2015).
- E: Gupta, V. and Sánchez-Colón, G.: *Decays of dibaryon sextaquarks in broken $SU(3)$ symmetry*. **Mod. Phys. Lett. A** **30** 1550010 (2015).
- E: Sun, Yuan and Song, Qin-Tao and Chen, Dian-Yong and Liu, Xiang and Zhu, Shi-Lin: *Higher bottom and bottom-strange mesons*. **Phys. Rev. D** **89** 054026 (2014). [arXiv:1401.1595 \[hep-ph\]](#).
- E: Shah, Manan and Patel, Bhavin and Vinodkumar, P C: *Mass spectra and decay properties of D_s Meson in a relativistic Dirac formalism*. **Phys. Rev. D** **90** 014009 (2014). [arXiv:1402.4227 \[hep-ph\]](#).
- E: Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. **Chin. Phys. C** **38** 090001 (2014).
- E: Amhis, Y. and others, HFLAV Collaboration: *Averages of b-hadron, c-hadron, and τ -lepton properties as of summer 2014*. (2014). FERMI-LAB-PUB-15-004-PPD, [arXiv:1412.7515 \[hep-ex\]](#).
- E: Feng, Xue-Chao and Wu, Jie and Li, Jun-Yu: *Puzzle of the assignment for the 2^3S_1 meson state*. **Eur. Phys. J. A** **50** 73 (2014).
- E: Wang, Guo-Li and Jiang, Yue and Wang, Tianhong and Ju, Wan-Li: *The Properties of $D_{s1}^*(2700)^+$* . (2013). [arXiv:1305.4756 \[hep-ph\]](#).

- E:** Vinodkumar, C. P. and Shah, Manan and Patel, Bhavin: *Spectroscopy and Decay properties of D and D_s mesons with Martin-like confinement potential in Dirac formalism*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 078 (2013).
- E:** Shah, Manan and Patel, Bhavin and Vinodkumar, P C: *Mass Spectra of D , D_s Mesons using Dirac formalism with martin-like confinement potential*. (2013). [arXiv:1312.7656 \[hep-ph\]](#).
- T:** Poireau, Vincent: *Rapports d'embranchement et résonances dans les désintégrations des mésons B en particules charmées dans BaBar et flux cosmique de positons dans AMS*. (2013). LAPP-H-2013-01, tel-00909741.
- E:** Bondar, A. E. and others, Charm-Tau Factory Collaboration: *Project of a Super Charm-Tau factory at the Budker Institute of Nuclear Physics in Novosibirsk*. *Phys. Atom. Nucl.* 76 1072–1085 (2013).
- T:** Segovia Gonzalez, Jorge: *Spectroscopy, reactions and decay mechanisms of mesons with heavy quarks*. [doi:10.14201/gredos.121222](#) (2012).
- T:** Segovia González, Jorge: *Spectroscopy, reactions and decay mechanisms of mesons with heavy quarks*. (2012). Ph.D. Thesis, Universidad de Salamanca.
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* 86 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Borika Jovanovic, V. and Borika, D.: *Mass formulas for single-charm tetraquarks with Fermi-Breit hyperfine interaction*. *Rom. J. Phys.* 57 803–815 (2012). [arXiv:1202.2470 \[hep-ph\]](#).
- E:** Zhang, Ailin: *Implications to c anti- s assignments of $D(s1)(2700)^+$ and $D(sJ)(2860)$* . *Nucl. Phys. A* 856 88–94 (2011). [arXiv:0904.2453 \[hep-ph\]](#).
- E:** Xu, Pu and Huang, Hong-Xia and Ping, Jia-Lun and Wang, Fan: *Nucleon-nucleon interaction in constituent quark models*. *Chin. Phys. Lett.* 28 031301 (2011).
- E:** Wang, Deng-Xia and Chen, Bing and Zhang, Ai-Lin: *Study of heavy-light hadrons within a flux tube model*. *Chin. Phys. C* 35 525–529 (2011).
- E:** Mohler, Daniel and Woloshyn, R. M.: *D and D_s meson spectroscopy*. *Phys. Rev. D* 84 054505 (2011). [arXiv:1103.5506 \[hep-lat\]](#).
- E:** Gamberg, Leonard P. and Mukherjee, Asmita and Mulders, Piet J.: *A model independent analysis of gluonic pole matrix elements and universality of TMD fragmentation functions*. *Phys. Rev. D* 83 071503 (2011). [arXiv:1010.4556 \[hep-ph\]](#).
- E:** Ebert, D. and Faustov, R. N. and Galkin, V. O.: *Masses of tetraquarks with open charm and bottom*. *Phys. Lett. B* 696 241–245 (2011). HU-EP-10-73, [arXiv:1011.2677 \[hep-ph\]](#).
- E:** Chen, Mei and Huang, Hongxia and Ping, Jialun and Wang, Fan: *Quark model study of strange dibaryon resonances*. *Phys. Rev. C* 83 015202 (2011).
- E:** Chen, Bing and Yuan, Ling and Zhang, Ailin: *Possible $2S$ and $1D$ charmed and charmed-strange mesons*. *Phys. Rev. D* 83 114025 (2011). [arXiv:1102.4142 \[hep-ph\]](#).
- E:** Badalian, A. M. and Bakker, B. L. G.: *Higher excitations of the D and D_s mesons*. *Phys. Rev. D* 84 034006 (2011). [arXiv:1104.1918 \[hep-ph\]](#).
- E:** Zhang, Ai-Lin: *Spectrum and Mixing of $D(s)$ Mesons*. [doi:10.1142/9789814313933%5F0004](#) (2010).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* 37 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Mohler, Daniel and Woloshyn, R. M.: *D_s meson spectroscopy*. *The XXVIII International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2010* 116 (2010). [arXiv:1010.2786 \[hep-lat\]](#).
- E:** Li, Gang and Shao, Feng-lan and Wang, Wei: *$B_s \rightarrow D_s(3040)$ form factors and B_s decays into $D_s(3040)$* . *Phys. Rev. D* 82 094031 (2010). [arXiv:1008.3696 \[hep-ph\]](#).
- E:** Li, De-Min and Ma, Bing: *Implication of BaBar's new data on the $D(s1)(2710)$ and $D(sJ)(2860)$* . *Phys. Rev. D* 81 014021 (2010). [arXiv:0911.2906 \[hep-ph\]](#).
- E:** Asner, D. and others, HFLAV Collaboration: *Averages of b -hadron, c -hadron, and τ -lepton properties*. (2010). [arXiv:1010.1589 \[hep-ex\]](#).
- E:** Deng-Xia, Wang and Ai-Lin, Zhang: *Study of excited D_s mesons*. *Chin. Phys. C* 34 1387–1389 (2010).
- E:** Chen, Mei and Gong, Fang and Huang, Hongxia and Ping, Jialun: *Dibaryons with strangeness in quark models*. *Mod. Phys. Lett. A* 25 1603–1612 (2010).
- T:** Wasiluk, Joanna M.: *Selected features of chiral doubling for hadrons*. (2009).
- E:** Vijande, J. and Valcarce, A. and Fernandez, F.: *A Multiquark description of the $D(sJ)(2860)$ and $D(sJ)(2700)$* . *Phys. Rev. D* 79 037501 (2009). [arXiv:0810.4988 \[hep-ph\]](#).
- E:** Ping, Jia-Lun and Deng, Cheng-Rong and Huang, Hong-Xia and Wang, Fan: *Quark model study of multiquark states*. *Chin. Phys. C* 33 1285–1290 (2009).
- E:** Ping, Jialun and Huang, Hongxia and Deng, Chengrong and Wang, Fan and Goldman, T.: *Systematic study of multiquark states: $qqq-q\bar{q}$ configuration*. *Phys. Rev. C* 79 065203 (2009).
- E:** Li, Xue-Qian and Liu, Xiang and Wei, Zheng-Tao: *Charm Physics: A Field Full with Challenges and Opportunities*. *Front. Phys. China* 4 49–74 (2009). [arXiv:0808.2587 \[hep-ph\]](#).

- E:** Abazov, V. M. and others, D0 Collaboration: *Measurement of the B_s^0 semileptonic branching ratio to an orbitally excited D_s state, $Br(B_s^0 \rightarrow D_{s1}^-(2536)\mu^+\nu X)$.* *Phys. Rev. Lett.* **102** 051801 (2009). FERMILAB-PUB-07-659-E, [arXiv:0712.3789 \[hep-ex\]](#).
- E:** Chen, Bing and Wang, Deng-Xia and Zhang, Ailin: *Interpretation of $D(sJ)(2632)^+$, $D(s1)(2700)^{+-}$, $D^*(sJ)(2860)^+$ and $D(sJ)(3040)^+$.* *Phys. Rev. D* **80** 071502 (2009). [arXiv:0908.3261 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish).* [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- T:** Amel, Hadj Kaddour: *Interpretation del la Resonance $X(3872)$ comme Etat Tetraquark.* (2009).
- E:** Zhu, Shi-Lin: *New hadron states.* *Int. J. Mod. Phys. E* **17** 283–322 (2008). [arXiv:hep-ph/0703225](#).
- E:** Zhong, Xian-hui and Zhao, Qiang: *Strong decays of heavy-light mesons in a chiral quark model.* *Phys. Rev. D* **78** 014029 (2008). [arXiv:0803.2102 \[hep-ph\]](#).
- E:** Zhang, H. X. and Wang, W. L. and Dai, Y. -B. and Zhang, Z. Y.: *Chiral $SU(3)$ quark model study of tetraquark states: cn anti- n anti- s / cs anti- s anti- s .* *Commun. Theor. Phys.* **49** 414–420 (2008). [arXiv:hep-ph/0607207](#).
- T:** Sherwood, Daniel: *Search for the $R(3520)$ crypto-exotic state at BaBar.* (2008).
- E:** Ping, Jialun and Huang, Hongxia and Deng, Chengrong and Wang, Fan and Goldman, T.: *Systematic study of pentaquark states: $qqq - q$ anti- q configuration.* *Phys. Rev. C* **77** 025201 (2008). [arXiv:0802.2891 \[hep-ph\]](#).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Jovanovic, V. Borka: *Masses of tetraquark candidates $D/s(2317)^+$ and $D/s(2632)^+$ using Glozman-Riska hyperfine interaction.* *Fortsch. Phys.* **56** 462–464 (2008).
- E:** Barberio, E. and others, HFLAV Collaboration: *Averages of b -hadron and c -hadron Properties at the End of 2007.* (2008). [arXiv:0808.1297 \[hep-ex\]](#).
- E:** Feng, Xue-Chao: *On the mass spectrum of $2(1)S0$ meson state.* *Acta Phys. Polon. B* **39** 2931–2938 (2008).
- T:** Collin, Gilles: *Les Hadrons Exotiques.* (2008).
- E:** Carlucci, M. V. and Giannuzzi, Floriana and Nardulli, G. and Pellicoro, M. and Stramaglia, S.: *AdS-QCD quark-antiquark potential, meson spectrum and tetraquarks.* *Eur. Phys. J. C* **57** 569–578 (2008). BARI-TH-584-07, [arXiv:0711.2014 \[hep-ph\]](#).
- E:** Yasui, S. and Oka, M.: *Triquark structure and isospin symmetry breaking in exotic $D(s)$ mesons.* *Phys. Rev. D* **76** 034009 (2007). [arXiv:0704.1345 \[hep-ph\]](#).
- E:** Wang, Li and Ping, Jia-Lun: *Mesons in the constituent quark model.* *Chin. Phys. Lett.* **24** 1195–1198 (2007).
- E:** van Beveren, Eef and Rupp, George: *Scalar and axial-vector mesons.* *Eur. Phys. J. A* **31** 468–473 (2007). [arXiv:hep-ph/0610199](#).
- T:** Rieger, Jason Michael: *First Measurement of the $B08$ Semileptonic Branching Ratio to an Orbitally Excited D^{**} State, $Br(B0 \rightarrow D-(2536)\mu+\nu X)$.* [doi:10.2172/922735](#) (2007). FERMILAB-THESIS-2007-46 .
- T:** Rakitin, Alexander Yurevich: *Measurement of the dipion spectrum in the decay $X(3872) \rightarrow J/\Psi\pi^+\pi^-$ at CDFII experiment.* (2007). Ph.D. Thesis, Massachusetts Institute of Technology.
- E:** Petersen, Brian Aa., BaBar Collaboration: *Charm and Charmonium Spectroscopy.* *Nucl. Phys. B Proc. Suppl.* **167** 87–90 (2007). SLAC-PUB-12166, BABAR-PROC-06-036, [arXiv:hep-ex/0609030](#).
- E:** Klempt, Eberhard and Zaitsev, Alexander: *Glueballs, Hybrids, Multiquarks. Experimental facts versus QCD inspired concepts.* *Phys. Rept.* **454** 1–202 (2007). [arXiv:0708.4016 \[hep-ph\]](#).
- T:** Kamenik, Jernej F.: *Role of resonances in heavy meson processes within standard model and beyond.* (2007). [arXiv:0709.3494 \[hep-ph\]](#).
- E:** Jovanovic, Vesna Borka: *Masses and Mixing of c q anti- q anti- q Tetraquarks Using Glozman-Riska Hyperfine Interaction.* *Phys. Rev. D* **76** 105011 (2007). [arXiv:0711.2299 \[hep-ph\]](#).
- E:** Huang, Hong-xia and Deng, Cheng-rong and Ping, Jia-lun and Wang, Fan and Goldman, T.: *Systematic study of multi-quark states. I. $qq - qq -$ anti- q configuration.* (2007). [arXiv:0711.1649 \[hep-ph\]](#).
- E:** Guo, Xin-Heng and Ke, Hong-Wei and Li, Xue-Qian and Liu, Xiang and Zhao, Shu-Min: *Study on production of exotic 0^+ meson $D^*(sJ)(2317)$ in decays of $\psi(4415)$.* *Commun. Theor. Phys.* **48** 509–518 (2007). [arXiv:hep-ph/0510146](#).
- E:** Wei, W. and Zhang, L. and Zhu, Shi-Lin: *The Possible $J(PC) I(G) = 2^{++}2^+$ state $X(1600)$.* *Int. J. Mod. Phys. A* **21** 4617–4626 (2006). [arXiv:hep-ph/0411140](#).
- E:** Vijande, J. and Fernandez, F. and Valcarce, A.: *Recent results on charm spectroscopy.* *AIP Conf. Proc.* **814** 518–522 (2006).
- E:** Vijande, J. and Fernandez, F. and Valcarce, A.: *Open-charm meson spectroscopy.* *Phys. Rev. D* **73** 034002 (2006). [Erratum: *Phys.Rev.D* **74**, 059903 (2006)], [arXiv:hep-ph/0601143](#).
- E:** Swanson, Eric S.: *The New heavy mesons: A Status report.* *Phys. Rept.* **429** 243–305 (2006). [arXiv:hep-ph/0601110](#).
- E:** Swanson, Eric: *Review of Heavy Hadron Spectroscopy.* *AIP Conf. Proc.* **814** 203–209 (2006).

- E: Swanson, Eric: *Review of heavy hadron spectroscopy*. *Int. J. Mod. Phys. A* 21 733–738 (2006). [arXiv:hep-ph/0509327](#).
- E: Rosner, Jonathan L.: *Hadron spectroscopy: A 2005 snapshot*. *AIP Conf. Proc.* 815 218–232 (2006). EFI-05-10, [arXiv:hep-ph/0508155](#).
- E: Poireau, V., BaBar Collaboration: *Studies of $D/sJ^{(*)}$ production in B decays and $e^+e^- \rightarrow c$ anti- c events*. *AIP Conf. Proc.* 814 498–502 (2006). SLAC-PUB-11831.
- E: Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* 33 1–1232 (2006).
- E: Palano, Antimo: *Charm and charmonium spectroscopy from B-factories*. *Int. J. Mod. Phys. A* 21 5601–5609 (2006). SLAC-PUB-12344.
- E: Maiani, Luciano and Piccinini, Fulvio and Polosa, Antonio D. and Riquer, Veronica: *Diquark-antidiquark states with hidden or open charm*. *International Europhysics Conference on High Energy Physics. Proceedings of Science HEP2005 105* (2006). [arXiv:hep-ph/0603021](#).
- E: Ma, Zhong-Biao and Gao, Chong-Shou: *Tetraquarks production in quark-gluon plasma with diquarks*. *Chin. Phys. Lett.* 23 568–571 (2006).
- E: Liu, Xiang and Yu, Yan-Ming and Zhao, Shu-Min and Li, Xue-Qian: *Study on decays of $D^{*(s)J}(2317)$ and $D(s)J(2460)$ in terms of the CQM model*. *Eur. Phys. J. C* 47 445–452 (2006). [arXiv:hep-ph/0601017](#).
- E: Ke, Hong-Wei and Yu, Yan-Ming and Ding, Yi-Bing and Guo, Xin-Heng and Jin, Hong-Ying and Li, Xue-Qian and Shen, Peng-Nian and Wang, Guo-Li: *Study on strong decays of $D(s)J(2632)$* . *HEPNP* 30 936–943 (2006). [arXiv:hep-ph/0603117](#).
- E: Godfrey, Stephen: *The XYZ 's of $c\bar{c}$: Hints of exotic new mesons*. eConf C060409 015 (2006). FPCP06-221, FPCP-2006-015, [arXiv:hep-ph/0605152](#).
- E: Fajfer, Svjetlana and Kamenik, Jernej F. and Prelovsek, Sasa: *D Physics*. eConf C0610161 018 (2006). HQL-2006-018, [arXiv:hep-ph/0702172](#).
- E: Fajfer, Svjetlana and Kamenik, Jernej F.: *Charm meson resonances in D semileptonic decays*. *AIP Conf. Proc.* 806 203–209 (2006). [arXiv:hep-ph/0509166](#).
- T: Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. doi:10.2172/1155869 (2006). FERMILAB-THESIS-2006-91 .
- E: Dmitrasinovic, Veljko: *$D/sJ^{*}(2317)$, $D/J^{*}(2308)$ and $D/sJ^{*}(2632)$ as candidates for open-charm tetraquarks*. *Int. J. Mod. Phys. A* 21 5625–5632 (2006).
- E: Dmitrasinovic, Veljko: *$D^{*(s)J}(2317)$ and $D^{*(J)}(2308)$ as candidates for open-charm tetraquarks*. *Mod. Phys. Lett. A* 21 533–548 (2006).
- E: Deng, Cheng-Rong and Ping, Jia-Lun: *Is kaon-nucleon interaction consistent with pentaquark Θ^{+}* . *Chin. Phys. Lett.* 23 45–47 (2006).
- E: Bianco, Stefano: *Spectroscopy of D mesons*. *AIP Conf. Proc.* 814 24–32 (2006). LNF-05-28-P, [arXiv:hep-ex/0512073](#).
- E: Bauer, G.: *The $x(3872)$ meson and exotic spectroscopy at CDF II*. *Int. J. Mod. Phys. A* 21 959–994 (2006). [arXiv:hep-ex/0505083](#).
- E: Zhu, Shi-Lin: *The Possible interpretations of $Y(4260)$* . *Phys. Lett. B* 625 212 (2005). [arXiv:hep-ph/0507025](#).
- E: Zhu, Shi-Lin: *Theoretical development on pentaquarks*. *Int. J. Mod. Phys. A* 20 1548–1553 (2005). [arXiv:hep-ph/0410002](#).
- E: Zheng, Han-qing: *Some remarks on exotic resonances*. *Int. J. Mod. Phys. A* 20 1981–1984 (2005). [arXiv:hep-ph/0411025](#).
- E: Zhang, Ailin: *Regge trajectories analysis to $D^{*(S)J}(2317)^{+-}$, $D(S)J(2460)^{+-}$ and $D(S)J(2632)^{+}$ mesons*. *Phys. Rev. D* 72 017902 (2005). [arXiv:hep-ph/0408124](#).
- E: Yabsley, Bruce D., Belle Collaboration: *Charm physics at Belle*. *AIP Conf. Proc.* 792 875–878 (2005). [arXiv:hep-ex/0507028](#).
- E: Vijande, J. and Fernandez, F. and Valcarce, A.: *Describing non- q anti- q candidates*. *Int. J. Mod. Phys. A* 20 702–704 (2005). [arXiv:hep-ph/0407136](#).
- E: Terazawa, Hidezumi: *EXOTIC MATTER AND SPACE-TIME - New Trends in Cosmo-Particle Physics*. (2005). KEK-PREPRINT-2005-65.
- E: Teplov, Oleg A.: *Precise mass spectrum of mesons with open charm in the harmonic quarks and oscillators*. (2005). [arXiv:hep-ph/0505267](#).
- E: Soto, J.: *Heavy quarks*. *AIP Conf. Proc.* 756 204–209 (2005).
- E: Sciolla, Gabriella, BaBar Collaboration: *Beyond CP violation: Hadronic physics at BaBar*. *J. Phys. Conf. Ser.* 9 11–21 (2005). SLAC-PUB-11046, BABAR-TALK-04-177, [arXiv:hep-ex/0503012](#).
- E: Sadzikowski, M.: *Chiral doublers for mesons, baryons and pentaquarks*. *Acta Phys. Polon. B* 36 2293–2300 (2005).
- E: Robutti, E., BaBar Collaboration: *Recent BaBar results on hadron spectroscopy*. *Acta Phys. Polon. B* 36 2315–2328 (2005). SLAC-PUB-11451.

- T:** Raval, Amita: *Evidence for a narrow state decaying to $K_{S^0}^0 p$ and $K_{S^0}^0 \bar{p}$ in deep inelastic scattering.* (2005). Ph.D. Thesis, Universität Hamburg.
- E:** Pappagallo, M., BaBar Collaboration: *Dalitz plot analysis of $D0 \rightarrow \text{anti-}K0 K+ K-$ and D/sJ states at BaBar.* (2005). SLAC-REPRINT-2005-318.
- E:** Nowak, Maciej A.: *Status of chiral doublers of heavy-light hadrons in light of recent BABAR CLEO, BELLE and SELEX $D(s)$ states.* *Int. J. Mod. Phys. A* 20 229–230 (2005). [arXiv:hep-ph/0407272](#).
- E:** Mehen, Thomas and Springer, Roxanne P.: *Even- and odd-parity charmed meson masses in heavy hadron chiral perturbation theory.* *Phys. Rev. D* 72 034006 (2005). JLAB-THY-05-306, [arXiv:hep-ph/0503134](#).
- E:** Maiani, L. and Piccinini, F. and Polosa, A. D. and Riquer, V.: *Four-quark mesons.* *AIP Conf. Proc.* 756 321–323 (2005). FNT-T-2004-22, BA-TH-503-04, CERN-PH-TH-2004-241, [arXiv:hep-ph/0501077](#).
- E:** Maiani, L. and Piccinini, F. and Polosa, A. D. and Riquer, V.: *Diquark-antidiquarks with hidden or open charm and the nature of $X(3872)$.* *Phys. Rev. D* 71 014028 (2005). ROMA1-1396-2004, FNT-T-2004-20, BA-TH-502-04, CERN-PH-TH-2004-239, [arXiv:hep-ph/0412098](#).
- E:** Kim, Hungchong and Oh, Yongseok: *$D(s)(2317)$ as a four-quark state in QCD sum rules.* *Phys. Rev. D* 72 074012 (2005). [arXiv:hep-ph/0508251](#).
- E:** Huang, Ming-Qiu and Wang, Dao-Wei: *Heavy quark effective theory sum rules for higher excited charmed mesons: With a view on $D(sJ)(2632)$.* *Phys. Rev. D* 71 114015 (2005).
- E:** Gupta, Virendra: *On tetraquark meson states.* *Int. J. Mod. Phys. A* 20 5891–5896 (2005). [arXiv:hep-ph/0407289](#).
- E:** Godfrey, Stephen: *Towards an understanding of the new charm and charm-strange mesons.* *J. Phys. Conf. Ser.* 9 59–62 (2005). [arXiv:hep-ph/0412370](#).
- E:** Godfrey, Stephen: *P-wave charm mesons as a window to the $D(sJ)$ states.* *Int. J. Mod. Phys. A* 20 3771–3773 (2005). [arXiv:hep-ph/0409236](#).
- E:** Fajfer, Svjetlana and Kamenik, Jernej F.: *Charm meson resonances and $D \rightarrow V$ semileptonic form-factors.* *Phys. Rev. D* 72 034029 (2005). [arXiv:hep-ph/0506051](#).
- E:** Fajfer, Svjetlana and Kamenik, Jernej F.: *Charm meson resonances in $D \rightarrow P l \nu$ decays.* *Phys. Rev. D* 71 014020 (2005). [arXiv:hep-ph/0412140](#).
- A:** Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons.* *AIP Conf. Proc.* 756 192–194 (2005).
- A:** Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons.* *Nucl. Phys. A* 752 121–128 (2005).
- E:** Ellis, John R.: *Summary of ICHEP 2004.* *Int. J. Mod. Phys. A* 20 5297–5315 (2005). CERN-PH-TH-2004-167, [arXiv:hep-ph/0409360](#).
- E:** Eichten, E.: *New developments in heavy-light systems.* *Nucl. Phys. B Proc. Suppl.* 142 242–246 (2005). FERMILAB-CONF-05-664-T.
- E:** Dmitrasinovic, Veljko: *$D(s0)+(2317) - D(0)(2308)$ mass difference as evidence for tetraquarks.* *Phys. Rev. Lett.* 94 162002 (2005).
- A:** Cooper, Peter S.: *New results in charm meson spectroscopy from FOCUS and SELEX.* *J. Phys. Conf. Ser.* 9 53–58 (2005). FERMILAB-CONF-05-003.
- E:** Close, F. E. and Swanson, E. S.: *Dynamics and decay of heavy-light hadrons.* *Phys. Rev. D* 72 094004 (2005). [arXiv:hep-ph/0505206](#).
- E:** Chen, Chunhui, BaBar Collaboration: *Charm physics at BaBar.* *AIP Conf. Proc.* 792 871–874 (2005). SLAC-PUB-11308, [arXiv:hep-ex/0507021](#).
- E:** Chang, Chao-Hsi and Kim, C. S. and Wang, Guo-Li: *Is $D+(sJ)(2632)$ the first radial excitation of $D^*(s)(2112)$?* *Phys. Lett. B* 623 218–226 (2005). [arXiv:hep-ph/0505205](#).
- E:** Butler, Joel N.: *Conference summary: 6th International conference on hyperons, charm, and beauty hadrons (BEACH04).* *Nucl. Phys. B Proc. Suppl.* 142 XV (2005). FERMILAB-PUB-04-342-E.
- T:** Brodzicka, Jolanta: *Study of doubly-charmed $B \rightarrow \text{anti-}D^* D^* K$ decays at Belle.* (2005).
- E:** van Beveren, Eef and Rupp, George: *Multichannel calculation for $D^*(s)$ vector states and the $D(s)(2632)$ resonance.* *Phys. Rev. Lett.* 93 202001 (2004). [arXiv:hep-ph/0407281](#).
- E:** Terazawa, H.: *New forms of matter - carbon nanofoams, hexalambdas, pentaquarks, color-balls, etc..* (2004). KEK-PREPRINT-2004-51.
- E:** Simonov, Yu. A. and Tjon, J. A.: *The Coupled-channel analysis of the D and $D(s)$ mesons.* *Phys. Rev. D* 70 114013 (2004). JLAB-THY-04-51, [arXiv:hep-ph/0409361](#).
- T:** Sassen, Felix Philipp: *Auswirkung der im KD - und K anti- K -Kanal gebildeten mesonischen Molekuele in verschiedenen Reaktionen.* (2004).
- E:** Richard, Jean-Marc: *Speculations in hadron spectroscopy.* [doi:10.1142/9789812701909%5F0011](#) (2004). LPSC-04-110, [arXiv:hep-ph/0412252](#).
- E:** Paul, S.: *Physics with charmed hadrons.* (2004).
- E:** Nussinov, Shmuel: *Now you see it, now you don't: The Pattern of production of certain resonances.* (2004). [arXiv:hep-ph/0408082](#).

- E:** Nowak, Maciej A. and Wasiluk, Joanna: *Introduction to chiral doubling of heavy light hadrons*. Acta Phys. Polon. B 35 3021 (2004).
- E:** Nicolescu, B. and de Melo, J. P. B. C.: *Is The $D+(sJ)(2632)$ meson a cryptoexotic tetraquark baryonium state?*. (2004). [arXiv:hep-ph/0407088](#).
- E:** Maiani, L. and Piccinini, F. and Polosa, A. D. and Riquer, V.: *Is the anomalous decay ratio of $D(sJ)(2632)$ due to isospin breaking?*. Phys. Rev. D 70 054009 (2004). [arXiv:hep-ph/0407025](#).
- E:** Liu, Y. R. and Zhu, Shi-Lin and Dai, Y. B. and Liu, C.: *$D+(sJ)(2632)$: An Excellent candidate of tetraquarks*. Phys. Rev. D 70 094009 (2004). [arXiv:hep-ph/0407157](#).
- A:** Jun, Soon Yung, SELEX Collaboration: *New particle observations in SELEX*. (2004). FERMILAB-CONF-04-450-E.
- E:** Ishida, Shin and Ishida, Muneyuki and Maeda, Tomohito and Oda, Masuho and Yamada, Kenji: *The $D(s)(2317)$ and $D(s)(2459)$ mesons in $\bar{U}(12)$ -classification scheme of hadrons*. (2004). [arXiv:hep-ph/0408136](#).
- E:** Evans, Harold G.: *Heavy flavor production in hadron collisions (with a few leptons and photons thrown in)*. eConf C0406271 MONT06 (2004). PIC-2004-MONT06, [arXiv:hep-ex/0408043](#).
- E:** De Fazio, F.: *Understanding $D^*(sJ)(2317)$, $D(sJ)(2460)$* . doi:10.1142/9789812702326%5F0015 (2004). BARI-TH-04-493, [arXiv:hep-ph/0407296](#).
- E:** Danilov, M., Belle Collaboration: *Search for pentaquarks and study of D/sJ mesons at BELLE*. (2004).
- E:** Dai, Yuan-Ben and Liu, Chun and Liu, Y. -R. and Zhu, Shi-Lin: *Possible interpretations of $D+(sJ)(2632)$ if it really exists*. JHEP 11 043 (2004). [arXiv:hep-ph/0408234](#).
- E:** Czarnecki, Andrzej: *Theoretical summary of Moriond 2004: QCD and hadronic interactions*. (2004). ALBERTA-THY-16-04, TRI-PP-04-11, [arXiv:hep-ph/0407251](#).
- A:** Cooper, Peter S., SELEX Collaboration: *First observation of a new narrow D_{sJ}^+ meson at 2632-MeV/c²*. eConf C0406271 MONT01 (2004). FERMILAB-CONF-04-402-E, PIC-2004-MONT01, [arXiv:hep-ex/0411018](#).
- E:** Chen, Yu-Qi and Li, Xue-Qian: *A Comprehensive four-quark interpretation of $D(s)(2317)$, $D(s)(2457)$ and $D(s)(2632)$* . Phys. Rev. Lett. 93 232001 (2004). [arXiv:hep-ph/0407062](#).
- E:** Chao, Kuang-Ta: *A Note on possible interpretations for the $D+(sJ)(2632)$ observed by SELEX*. Phys. Lett. B 599 43–47 (2004). [arXiv:hep-ph/0407091](#).
- E:** Barnes, T. and Close, F. E. and Dudek, J. J. and Godfrey, S. and Swanson, E. S.: *Options for the SELEX state $D+(sJ)(2632)$* . Phys. Lett. B 600 223–230 (2004). [arXiv:hep-ph/0407120](#).
- E:** Aubert, Bernard and others, BaBar Collaboration: *Search for the $D(sJ)^*(2632)^+$ at BABAR*. (2004). SLAC-PUB-10633, BABAR-CONF-04-045, [arXiv:hep-ex/0408087](#).
- E:** Arkhipov, A. A.: *The SELEX measurements in the unified picture for hadron spectra*. (2004). [arXiv:hep-ph/0409311](#).
- E:** Abe, Kazuo: *Charm Mixing and Decays*. (2004).
41. Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. Phys. Rev. D 70 112005 (2004).
- 3 Citations:
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. doi:10.2172/969509 (2009). FERMILAB-THESIS-2009-43 .
- E:** Abramov, V. V.: *Phenomenology of single-spin effects in hadron production at high energies*. Phys. Atom. Nucl. 72 1872–1888 (2009).
- T:** Sanchez-Lopez, J. L. and others, SELEX Collaboration: *Polarization of Λ^0 and $\bar{\Lambda}^0$ inclusively produced by 610-GeV/c Σ^- and 525-GeV/c proton beams*. (2007). FERMILAB-PUB-07-312-E, UASLP-IF-07-003, [arXiv:0706.3660 \[hep-ex\]](#).
40. Adamovich, M. I. and others, WA89 Collaboration: *V_0 , anti- Ξ^+ and Omega- inclusive production cross-sections measured in hyperon experiment WA89 at CERN*. Eur. Phys. J. C 26 357–370 (2003).
- 20 Citations:
- E:** Alessandro, B. and others: *Hadron-Hadron and Cosmic-Ray Interactions at multi-TeV Energies: Mini-proceedings, workshop, Trento, Italy, 29 Nov - 3 Dec 2010*. (2011). [arXiv:1101.1852 \[hep-ex\]](#).
- E:** Arakelyan, G. H. and Kaidalov, A. B. and Merino, C. and Shabelski, Yu. M.: *Production of Strange Secondaries in High Energy Sigma(-)A Collisions*. Phys. Atom. Nucl. 74 426–436 (2011). [arXiv:1004.4074 \[hep-ph\]](#).
- E:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. Eur. Phys. J. C 64 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- E:** Abt, I. and others, HERA-B Collaboration: *V_0 production in p+A collisions at $s^{**}(1/2) = 41.6$ -GeV*. Eur. Phys. J. C 61 207–221 (2009). [Erratum: Eur.Phys.J.C 64, 167–168 (2009)]DESY-08-179, [arXiv:0812.0471 \[hep-ex\]](#).

- A:** Siebert, H. W.: *The challenge of correlations in hadronic production of $V0$ $V0$ pairs*. *Eur. Phys. J. ST* **162** 155–159 (2008).
- A:** Adamovich, M. I. and others, WA99 Collaboration: *Production of $V0$ pairs in the hyperon experiment WA99*. *Eur. Phys. J. C* **52** 857–874 (2007).
- E:** Shabelski, Yu. M.: *String Junction and Diffusion of Baryon Charge in Multiparticle Production Processes*. (2007). [arXiv:0705.0947 \[hep-ph\]](#).
- E:** Neal, Homer A. and De La Cruz Burelo, Eduard: *Hyperon polarization in a quark-quark scattering model*. (2006). [arXiv:hep-ph/0602079](#).
- E:** Dohrmann, F.: *Production of strangeness in hot and cold nuclear matter induced by both leptonic and hadronic projectiles*. *Int. J. Mod. Phys. E* **15** 761–851 (2006).
- E:** Bopp, Fritz W. and Shabelski, M.: *String junction effects for forward and central baryon production in hadron-nucleus collisions*. *Eur. Phys. J. A* **28** 237–243 (2006). SI-HEP-2006-02, [arXiv:hep-ph/0603193](#).
- T:** Agari, Michaela: *Hyperon production in proton nucleus collisions at a center-of-mass energy of $\sqrt{s_{NN}} = 41.6$ GeV at HERA-B and design of silicon microstrip detectors for tracking at LHCb*. (2006). CERN-THESIS-2006-046.
- E:** Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. *Nucl. Phys. A* **754** 430–442 (2005).
- E:** Zavertyaev, M., HERA-B Collaboration: *Strangeness production at the HERA-B experiment*. (2004). [arXiv:hep-ex/0405039](#).
- E:** Winchell, D. F. and Sonzogno, A. A.: *Recent References*. *Nucl. Data Sheets* **101** 1–192 (2004).
- A:** Adamovich, M. I. and others, WA99 Collaboration: *Search for the exotic $\Xi(1860)$ resonance in 340-GeV/c Sigma-nucleus interactions*. *Phys. Rev. C* **70** 022201 (2004). [arXiv:hep-ex/0405042](#).
- A:** Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work*. (2004). [arXiv:hep-ex/0406077](#).
- T:** Olivo Gomez, Miguel Angel: *Inclusive Production of Lambda, Anti-Lambda and K(S) in Sigma-, pi+/- and p - Nucleon Collisions*. (2004). [FERMILAB-MASTERS-2004-02](#).
- E:** Fischer, H. G. and Wenig, S.: *Are there $S = -2$ pentaquarks?*. *Eur. Phys. J. C* **37** 133–140 (2004). [arXiv:hep-ex/0401014](#).
- E:** Abt, I. and others, HERA-B Collaboration: *Inclusive $V0$ production cross-sections from 920-GeV fixed target proton nucleus collisions*. *Eur. Phys. J. C* **29** 181–190 (2003). DESY-02-213, [arXiv:hep-ex/0212040](#).
- T:** Britsch, Markward: *Hyperon production in proton nucleus collisions at 42-GeV center of mass energy*. (2003).
39. Kaya, M and others, SELEX Collaboration: *Production Asymmetry of D_s from 600-GeV/c Σ^- and π^- Beam*. *Phys. Lett. B* **558** 34–40 (2003). [arXiv:hep-ex/0302039](#).

18 Citations:

- E:** Aoki, Shigeki and others, DsTau Collaboration: *DsTau: Study of tau neutrino production with 400 GeV protons from the CERN-SPS*. *JHEP* **01** 033 (2020). [arXiv:1906.03487 \[hep-ex\]](#).
- E:** Gornushkin, Yu., DsTau Collaboration: *Study of Tau Neutrino Production in Proton Nucleus Interactions*. *Ukr. J. Phys.* **64** 577–582 (2019).
- E:** Gornushkin, Yury, DsTau Collaboration: *Study of tau neutrino production in proton-nucleus interactions*. *J. Phys. Conf. Ser.* **1390** 012047 (2019).
- E:** Aoki, S. and others: *Study of tau-neutrino production at the CERN SPS*. (2017). CERN-SPSC-2017-029, SPSC-P-354, [arXiv:1708.08700 \[hep-ex\]](#).
- E:** Adolph, C. and others, COMPASS Collaboration: *D^* and D Meson Production in Muon Nucleon Interactions at 160 GeV/c*. *Eur. Phys. J. C* **72** 2253 (2012). CERN-PH-EP-2012-339, [arXiv:1211.1575 \[hep-ex\]](#).
- T:** Kurek, K.: *Understanding the Nucleon's Spin Structure The Direct Gluon Polarisation Measurement at the COMPASS Experiment*. (2011). CERN-THESIS-2011-273.
- E:** Alves, Jr., A. A. and Magnin, J.: *Measuring asymmetries in flavor asymmetric machines*. (2011). [arXiv:1101.0116 \[hep-ph\]](#).
- T:** Zvyagin, A.: *D-meson production by muons in the COMPASS experiment at CERN*. (2010). CERN-THESIS-2010-271.
- A:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* **64** 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). [FERMILAB-THESIS-2009-43](#).
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). [FERMILAB-THESIS-2006-91](#).
- T:** Slabospitsky, Sergei Rostislavovich: *Single phenomenological approach to describing the processes of hadrons with heavy quarks at high energies*. (2005).
- A:** Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^-* . *Phys. Lett. B* **628** 18–24 (2005). FERMILAB-PUB-04-082-E, [arXiv:hep-ex/0406033](#).

- A:** Evdokimov, A. V. and others, SELEX Collaboration: *First Observation of a Narrow Charm-Strange Meson $D_{sJ}^+(2632) \rightarrow D_s^+\eta$ and D^0K^+* . *Phys. Rev. Lett.* **93** 242001 (2004). FERMILAB-PUB-04-087-E, [arXiv:hep-ex/0406045](#).
- A:** Russ, J. S.: *Recent hadron physics results from Fermilab*. *AIP Conf. Proc.* **717** 507–514 (2004).
- E:** Mehen, Thomas: *Recent developments in heavy quark and quarkonium production*. *Acta Phys. Polon. B* **35** 121–130 (2004). JLAB-THY-03-222, [arXiv:hep-ph/0312239](#).
- E:** Gottschalk, Erik Edward: *Beauty and charm production at fixed - target experiments*. *Acta Phys. Polon. B* **35** 85–90 (2004). FERMILAB-CONF-03-375-E.
- T:** Carvalho, Fabiana: *A nuvem mesônica, a estranheza e o charme nos hádrons*. (2004).
38. Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment*. *Nucl. Instrum. Meth. A* **502** 62–66 (2003). [arXiv:hep-ex/0209020](#).

11 Citations:

- E:** Anzivino, G. and others: *Studies of the effects of CO₂ contamination of the neon gas radiator on the performance of the NA62 RICH Detector*. *IEEE Trans. Nucl. Sci.* **60** 265–269 (2013).
- A:** Engelfried, Jürgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- A:** Cooper, Peter S. and Engelfried, Jürgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* **639** 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171 \[physics.ins-det\]](#).
- A:** Engelfried, Jürgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- A:** Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH*. *Nucl. Instrum. Meth. A* **553** 237–241 (2005). FERMILAB-CONF-05-607-CD.
- A:** Estrada, N. and Engelfried, J. and Morelos Pineda, Antonio: *Ronchi test for flat mirrors*. *Nucl. Instrum. Meth. A* **553** 172–176 (2005).
- A:** Cooper, Peter S. and Engelfried, Jürgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
- A:** Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- E:** Krizan, P.: *Recent progress in ring imaging Cherenkov counters with vacuum-based photon detectors*. *Nucl. Instrum. Meth. A* **502** 28–35 (2003).
- E:** Forty, R.: *Physics with RICH detectors*. *Nucl. Instrum. Meth. A* **502** 275–284 (2003).
- A:** Engelfried, Jürgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](#).
37. Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). [arXiv:hep-ex/0208046](#).

19 Citations:

- A:** Engelfried, Jürgen: *Handbook of Particle Detection and Imaging, 2.edition*. [doi:10.1007/978-3-319-93785-4%5F6](#) (2021).
- E:** Wong, C. P. and others: *Modular focusing ring imaging Cherenkov detector for electron-ion collider experiments*. *Nucl. Instrum. Meth. A* **871** 13–19 (2017).
- T:** Montgomery, Rachel Ann: *A position sensitive photon detector for the CLAS12 ring imaging Čerenkov application*. (2013).
- E:** Ratcliff, Blair and Schwiening, Jochen: *Cherenkov counters*. [doi:10.1007/978-3-642-13271-1%5F18](#) (2012).
- A:** Engelfried, Jürgen: *Particle identification*. [doi:10.1007/978-3-642-13271-1%5F6](#) (2012).
- E:** Matteuzzi, C.: *Technological implications for RICH performance*. *Nucl. Instrum. Meth. A* **639** 202–206 (2011).
- A:** Engelfried, Jürgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- A:** Cooper, Peter S. and Engelfried, Jürgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* **639** 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171 \[physics.ins-det\]](#).
- E:** Accardi, A. and Arleo, F. and Brooks, W. K. and D’Enterria, David and Muccifora, V.: *Parton Propagation and Fragmentation in QCD Matter*. *Riv. Nuovo Cim.* **32** 439–554 (2009). JLAB-THY-09-1038, [arXiv:0907.3534 \[nucl-th\]](#).
- T:** Levorato, S.: *Measurement of transverse spin effect in COMPASS on a transversely polarised proton target*. (2008). CERN-THESIS-2008-179.

- A:** Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- E:** Nappi, E. and Seguinot, J.: *Ring imaging Cherenkov detectors: The state of the art and perspectives*. *Riv. Nuovo Cim.* **28** 1–130 (2005).
- A:** Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH*. *Nucl. Instrum. Meth. A* **553** 237–241 (2005). FERMILAB-CONF-05-607-CD.
- A:** Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
- T:** Ayan, Ahmet Sedat: *The CMS forward calorimeter prototype design studies and Omega(c)0 search at E781 experiment at Fermilab*. doi:10.2172/875582 (2004). FERMILAB-THESIS-2004-36, UMI-31-26293-MC .
- E:** Krizan, P.: *Recent progress in ring imaging Cherenkov counters with vacuum-based photon detectors*. *Nucl. Instrum. Meth. A* **502** 28–35 (2003).
- E:** Forty, R.: *Physics with RICH detectors*. *Nucl. Instrum. Meth. A* **502** 275–284 (2003).
- A:** Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, arXiv:physics/0312061.
- A:** Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment*. *Nucl. Instrum. Meth. A* **502** 62–66 (2003). FERMILAB-CONF-02-192-E, UASLP-IF-02-008, arXiv:hep-ex/0209020.
36. Mattson, M. and others, SELEX Collaboration: *First Observation of the Doubly Charmed Baryon Ξ_{cc}^+* . *Phys. Rev. Lett.* **89** 112001 (2002). arXiv:hep-ex/0208014.
- 552 Citations:
- E:** Zhao, Xue-Yun and Guo, Lei and Zheng, Xu-Chang and Bi, Huan-Yu and Wu, Xing-Gang and Ke, Qi-Wei: *Production of doubly heavy baryon at the Muon-Ion collider**. *Chin. Phys. C* **49** 053103 (2025). arXiv:2503.02182 [hep-ph].
- E:** Song, He and Xie, Jia-Qi and Liu, Xin-Ru and Chen, Jiao-Kai: *λ and ρ trajectories for the doubly heavy baryons in the diquark picture*. (2025). arXiv:2502.12487 [hep-ph].
- E:** Shekari Tousi, M. and Azizi, K.: *Semileptonic decays of doubly charmed (bottom) baryons to single heavy baryons*. (2025). arXiv:2504.17030 [hep-ph].
- E:** Pan, Ji-Hai and Pan, Ji-Si: *Study of the mass spectra of doubly heavy $\Xi_{QQ'}$ and $\Omega_{QQ'}$ baryons*. (2025). arXiv:2502.01088 [hep-ph].
- E:** Najjar, Z. Rajabi and Azizi, K.: *Investigation of triply heavy spin-3/2 baryons in their ground and excited states*. (2025). arXiv:2504.06822 [hep-ph].
- E:** Liu, Jiong-Jiong and Liu, Zhan-Wei and Ren, Xiu-Lei and Zhuge, Yu: *Chiral extrapolation of the doubly charmed baryons magnetic properties*. (2025). arXiv:2503.19825 [hep-ph].
- E:** Liu, Ming-Zhu and Pan, Ya-Wen and Liu, Zhi-Wei and Wu, Tian-Wei and Lu, Jun-Xu and Geng, Li-Sheng: *Three ways to decipher the nature of exotic hadrons: Multiplets, three-body hadronic molecules, and correlation functions*. *Phys. Rept.* **1108** 1–108 (2025). arXiv:2404.06399 [hep-ph].
- E:** Liang, Ze-Rui and Yi, Jing-Yu and Liu, Liuming and Yao, De-Liang: *ChPT and lattice QCD studies of doubly charmed baryons*. (2025). arXiv:2504.04709 [hep-ph].
- E:** Li, Shi-Yuan and Liu, Yan-Rui and Shu, Cheng-Rui and Si, Zong-Guo: *Doubly-charmed pentaquark states in a mass splitting model*. (2025). arXiv:2504.15789 [hep-ph].
- E:** Hu, Xiao-Hui and Zhou, Quan-Yu and Xing, Ye and Shi, Yu-Ji: *The strong coupling constants of doubly heavy baryons with heavy mesons*. (2025). arXiv:2502.16561 [hep-ph].
- E:** Aliev, T. M. and Askan, E. and Ozpineci, A.: *Multipole Moments of Double Heavy $J^P = \frac{3}{2}^+$ Baryons*. (2025). arXiv:2504.10199 [hep-ph].
- E:** Tousi, M. Shekari and Azizi, K. and Moshfegh, H. R.: *Investigation of the semileptonic decay $\Xi_{cc}^{++} \rightarrow \Xi_{cc}^+ \ell^+ \nu_\ell$ within QCD sum rules*. *Phys. Rev. D* **110** 114001 (2024). arXiv:2409.00241 [hep-ph].
- E:** Song, Qing-Fu and Lü, Qi-Fang and Hosaka, Atsushi: *Bottom-charmed baryons in a nonrelativistic quark model*. *Eur. Phys. J. C* **84** 89 (2024). arXiv:2308.03261 [hep-ph].
- E:** Shu, Ya-Li and Song, Qing-Fu and Lü, Qi-Fang: *Strong decays of P -wave doubly charmed and bottom baryons*. (2024). arXiv:2408.11578 [hep-ph].
- E:** Shekari Tousi, M. and Azizi, K.: *Properties of doubly heavy spin-1/2 baryons: The ground and excited states*. *Phys. Rev. D* **109** 054005 (2024). arXiv:2401.07151 [hep-ph].
- E:** Plessas, Willibald: *Quarks and quantum chromodynamics*. *Int. J. Mod. Phys. A* **39** 2441002 (2024).
- E:** Patel, Kinjal and Thakkar, Kaushal: *Transition properties of Doubly Heavy Baryons*. (2024). arXiv:2408.00335 [hep-ph].
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).

- E: Padmanath, M.: *Lattice simulations for charm*. *Int. J. Mod. Phys. A* 39 2442013 (2024).
- E: Oudichhya, Juhi and Rai, Ajay Kumar: *Study of singly bottom and doubly heavy baryons within Regge phenomenology*. *Eur. Phys. J. A* 60 125 (2024).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof: *Strong decay widths of S- and P-wave singly-, doubly- and triply-heavy charm and bottom baryons*. (2024). MSUHEP-24-018, [arXiv:2410.09622 \[hep-ph\]](#).
- E: Najjar, Z. Rajabi and Azizi, K. and Moshfegh, H. R.: *Properties of the ground and excited states of triply heavy spin-1/2 baryons*. *Eur. Phys. J. C* 84 612 (2024). [arXiv:2402.14348 \[hep-ph\]](#).
- E: Minissale, Vincenzo and Plumari, Salvatore and Sun, Yifeng and Greco, Vincenzo: *Multi-charmed and singled charmed hadrons from coalescence: yields and ratios in different collision systems at LHC*. *Eur. Phys. J. C* 84 228 (2024). [arXiv:2305.03687 \[hep-ph\]](#).
- E: Liu, Chang-Le and Zhang, Wen-Xuan and Jia, Duojie: *Masses and decays of triply-heavy pentaquarks**. *Chin. Phys. C* 48 103110 (2024). [arXiv:2403.13456 \[hep-ph\]](#).
- E: Ghaleynovi, Zahra and Sorkhi, Masoumeh Moazzen and Sovizi, Amir Hossein: *Quark Model Study of Doubly Heavy Ξ and Ω Baryons via Deep Neural Network and Hybrid Optimization*. (2024). [arXiv:2411.13091 \[hep-ph\]](#).
- E: Duan, Feng-Bo and Wang, Qi-Nan and Yang, Zi-Yan and Chen, Xu-Liang and Chen, Wei: *Doubly charmed pentaquark states in QCD sum rules*. *Phys. Rev. D* 109 094018 (2024). [arXiv:2401.10078 \[hep-ph\]](#).
- E: Crede, Volker and Yelton, John: *70 years of hyperon spectroscopy: a review of strange Ξ , Ω baryons, and the spectrum of charmed and bottom baryons*. *Rept. Prog. Phys.* 87 106301 (2024). [arXiv:2502.08815 \[hep-ex\]](#).
- E: Allaman, Héloïse and Ekhterachian, Majid and Nardi, Filippo and Rattazzi, Riccardo and Stelzl, Stefan: *Tetraquarks at large M and large N*. *JHEP* 11 034 (2024). [arXiv:2407.18298 \[hep-ph\]](#).
- E: Aliev, Tahmasib and Askan, Emre and Ozpineci, Altug and Sarac, Yasemin: *FCNC decays of spin-1/2 double heavy baryons to spin-3/2 single heavy baryons*. *EPJ Web Conf.* 314 00004 (2024).
- E: Zhan, Xi-Jie and Wu, Xing-Gang and Zheng, Xu-Chang: *Photoproduction of P-wave doubly charmed baryon at future e^+e^- collider*. *JHEP* 11 029 (2023). [arXiv:2309.01316 \[hep-ph\]](#).
- E: Zhan, Xi-Jie and Wu, Xing-Gang and Zheng, Xu-Chang: *Photoproduction of doubly heavy baryons at future $e+e-$ colliders*. *Phys. Rev. D* 108 074030 (2023). [arXiv:2310.14315 \[hep-ph\]](#).
- E: Yu, Guo-Liang and Li, Zhen-Yu and Wang, Zhi-Gang and Lu, Jie and Yan, Meng: *Systematic analysis of doubly charmed baryons Ξ_{cc} and Ω_{cc}* . *Eur. Phys. J. A* 59 126 (2023). [arXiv:2211.00510 \[hep-ph\]](#).
- E: Xing, Ye and Xu, Ji: *Searching for doubly charmed baryon from \bar{B}_c meson decays*. (2023). [arXiv:2311.12346 \[hep-ph\]](#).
- E: Tian, Hai-Jiang and Luo, Xuan and Fu, Hai-Bing: *Further study on the production of P-wave doubly heavy baryons from Z-boson decays*. *Phys. Lett. B* 847 138302 (2023). [arXiv:2306.03388 \[hep-ph\]](#).
- E: Ozdem, Ulas: *Magnetic dipole moments of bottom-charm baryons in light-cone QCD*. *Eur. Phys. J. C* 83 887 (2023). [arXiv:2305.10063 \[hep-ph\]](#).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof: *Masses and radiative decay widths of S- and P-wave singly, doubly, and triply heavy charm and bottom baryons*. *Phys. Rev. D* 108 054014 (2023). [arXiv:2307.04939 \[hep-ph\]](#).
- E: Meng, Lu and Wang, Bo and Wang, Guang-Juan and Zhu, Shi-Lin: *Chiral perturbation theory for heavy hadrons and chiral effective field theory for heavy hadronic molecules*. *Phys. Rept.* 1019 1–149 (2023). [arXiv:2204.08716 \[hep-ph\]](#).
- E: Liu, Hao and Zou, Yuan-He and Liu, Yan-Rui and Jiang, Shao-Zhou: *Chiral Lagrangians for spin-12 and spin-32 doubly charmed baryons*. *Phys. Rev. D* 108 014032 (2023). [arXiv:2304.04575 \[hep-ph\]](#).
- E: Liang, Ze-Rui and Qiu, Peng-Cheng and Yao, De-Liang: *One-loop analysis of the interactions between doubly charmed baryons and Nambu-Goldstone bosons*. *JHEP* 07 124 (2023). [arXiv:2303.03370 \[hep-ph\]](#).
- E: Li, Zhen-Yu and Yu, Guo-Liang and Wang, Zhi-Gang and Gu, Jian-Zhong and Shen, Hong-Tao: *Mass spectra of bottom-charm baryons*. *Int. J. Mod. Phys. A* 38 2350095 (2023). [arXiv:2211.15111 \[hep-ph\]](#).
- E: Li, Zhen-Yu and Yu, Guo-Liang and Wang, Zhi-Gang and Gu, Jian-Zhong and Shen, Hong-Tao: *Mass spectra of double-bottom baryons*. *Mod. Phys. Lett. A* 38 2350052 (2023). [arXiv:2210.13085 \[hep-ph\]](#).
- E: Hu, Xiao-Hui and Shi, Yu-Ji: *Light-cone sum rules analysis of $\Xi QQ'q \rightarrow \Sigma Q'^*$ weak decays*. *Phys. Rev. D* 107 036007 (2023). [arXiv:2202.07540 \[hep-ph\]](#).
- E: Gross, Franz and others: *50 Years of Quantum Chromodynamics*. *Eur. Phys. J. C* 83 1125 (2023). [arXiv:2212.11107 \[hep-ph\]](#).
- E: Ghaleynovi, Zahra and Sorkhi, Masoumeh Moazzen: *Static properties and Semileptonic transitions of lowest-lying double heavy baryons*. *Chin. Phys. C* 47 033105 (2023). [arXiv:2208.07625 \[hep-ph\]](#).
- E: Geng, Chao-Qiang and Liu, Chia-Wei and Zhou, Aowen and Yu, Xiao: *Semileptonic decays of doubly charmed baryons in the bag model*. *Phys. Rev. D* 107 053008 (2023). [arXiv:2211.04372 \[hep-ph\]](#).
- E: Farhadi, Mansour and Moosavi Nejad, S. Mohammad and Armat, A.: *Radiative and semileptonic decay widths of heavy ground state baryons in diquark model*. *Eur. Phys. J. A* 59 171 (2023).
- E: Dulibić, Lovro and Gratrex, James and Melić, Blaženka and Nišandžić, Ivan: *Revisiting lifetimes of doubly charmed baryons*. *JHEP* 07 061 (2023). RBI-ThPhys-2023-9, [arXiv:2305.02243 \[hep-ph\]](#).

- E:** Alexeev, G. D. and others, COMPASS Collaboration: *Double J/ψ production in pion-nucleon scattering at COMPASS*. *Phys. Lett. B* 838 137702 (2023). CERN-EP-2022-073, [arXiv:2204.01817 \[hep-ex\]](#).
- E:** Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *An updated review of the new hadron states*. *Rept. Prog. Phys.* 86 026201 (2023). [arXiv:2204.02649 \[hep-ph\]](#).
- E:** Bahtiyar, H.: *Electromagnetic structure of spin-1/2 doubly charmed baryons in lattice QCD*. *Phys. Rev. D* 108 034504 (2023). [arXiv:2209.05361 \[hep-lat\]](#).
- E:** Aliev, T. M. and Askan, E. and Ozpineci, A.: *Radiative decays of the spin-3/2 to spin-1/2 doubly heavy baryons in QCD*. *Phys. Rev. D* 108 054015 (2023). [arXiv:2306.14552 \[hep-ph\]](#).
- T:** Xu, Ao: *Study of charmed baryons at the LHCb experiment*. (2022). CERN-THESIS-2022-271.
- E:** Wu, Su-Zhi and Wu, Pei and Li, You-Wei: *Production of the triply heavy Ω_{ccc} and Ω_{bbb} baryons at e^+e^- colliders*. [doi:10.1103/PhysRevD.107.116022](#) (2022). [arXiv:2211.17061 \[hep-ph\]](#).
- E:** Tong, Hao-Ze and Li, Hao-Song: *Chiral corrections to the masses of the doubly heavy baryons*. *Commun. Theor. Phys.* 74 085201 (2022). [arXiv:2110.01380 \[hep-ph\]](#).
- T:** Seman Bobulska, Dana: *Doubly charmed baryon searches at the LHCb experiment*. (2022). CERN-THESIS-2022-162.
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* 2022 083C01 (2022).
- E:** Oudichhya, Juhi and Gandhi, Keval and Kumar Rai, Ajay: *Mass spectra of Ξ_{cc} , Ξ_{bc} , Ω_{cc} , and Ω_{bc} baryons in Regge phenomenology*. *Phys. Scripta* 97 054001 (2022). [arXiv:2204.10045 \[hep-ph\]](#).
- E:** Mutuk, Halil: *The status of Ξ_{cc}^{++} baryon: investigating quark-diquark model*. *Eur. Phys. J. Plus* 137 10 (2022). [arXiv:2112.06205 \[hep-ph\]](#).
- E:** Luo, Xuan and Jiang, Ying-Zhao and Zhang, Gui-Yuan and Sun, Zhan: *Doubly-charmed baryon production in Z boson decay*. (2022). [arXiv:2206.05965 \[hep-ph\]](#).
- E:** Ling, Xi-Zhe and Liu, Ming-Zhu and Geng, Li-Sheng and Wang, En and Xie, Ju-Jun: *Can we understand the decay width of the T_{cc}^+ state?* *Phys. Lett. B* 826 136897 (2022). [arXiv:2108.00947 \[hep-ph\]](#).
- E:** Li, Hong-Tai and Zheng, Xu-Chang and Yan, Jiang and Wu, Xing-Gang and Chen, Gu: *Hadronic production of Ξ_{bc} with the intrinsic heavy-quark content at a fixed-target experiment at the LHC*. *Phys. Rev. D* 106 114030 (2022). [arXiv:2211.06085 \[hep-ph\]](#).
- E:** Klempt, Eberhard and Neubert, Sebastian: *Heavy-flavor baryons*. (2022). [arXiv:2211.12897 \[hep-ph\]](#).
- E:** He, Hui-Zhen and Liang, Wei and Lü, Qi-Fang: *Strong decays of the low-lying doubly bottom baryons*. *Phys. Rev. D* 105 014010 (2022). [arXiv:2106.11045 \[hep-ph\]](#).
- E:** Guo, Tao and Li, Jianing and Zhao, Jiaying and He, Lianyi: *Mass spectra of doubly heavy tetraquarks in an improved chromomagnetic interaction model*. *Phys. Rev. D* 105 014021 (2022). [arXiv:2108.10462 \[hep-ph\]](#).
- E:** Ghalei, Zahra and Shen, Cheng-Ping and Moazzen Sorkhi, Masoumeh: *Mass spectra and semileptonic decays of doubly heavy Ξ and Ω baryons*. *Phys. Lett. B* 834 137405 (2022). [arXiv:2204.02938 \[hep-ph\]](#).
- E:** Egede, Ulrik and Hadavizadeh, Tom and Singla, Minni and Skands, Peter and Vesterinen, Mika: *The role of multi-parton interactions in doubly-heavy hadron production*. *Eur. Phys. J. C* 82 773 (2022). [arXiv:2205.15681 \[hep-ph\]](#).
- E:** Cheng, Hai-Yang: *Charmed baryon physics circa 2021*. *Chin. J. Phys.* 78 324–362 (2022). [arXiv:2109.01216 \[hep-ph\]](#).
- E:** Chen, Xiaoyun and Yang, Youchang: *Doubly-heavy tetraquark states and **. *Chin. Phys. C* 46 054103 (2022). [arXiv:2109.02828 \[hep-ph\]](#).
- E:** Andrei, Gridin: *Study of double J/ψ production mechanisms at COMPASS*. *Int. J. Mod. Phys. A* 37 2240002 (2022).
- E:** Alrebdi, H. I. and Alnahdi, R. F. and Barakat, T.: *Excited states of spin-(3/2) doubly-heavy baryons within the QCD sum rules method*. *Eur. Phys. J. C* 82 450 (2022).
- E:** Aliyev, Takhmasib and Bilmiş, Selçuk: *Properties of doubly heavy baryons in QCD*. *Turk. J. Phys.* 46 1–26 (2022). [arXiv:2203.02965 \[hep-ph\]](#).
- E:** Albaladejo, M.: *T_{cc}^+ coupled channel analysis and predictions*. *Phys. Lett. B* 829 137052 (2022). [arXiv:2110.02944 \[hep-ph\]](#).
- E:** Zhou, Yixiong, LHCb Collaboration: *Charmed hadron properties and spectroscopy at LHCb*. *40th International Conference on High Energy physics. Proceedings of Science ICHEP2020* 441 (2021).
- E:** Zhang, Wen-Xuan and Xu, Hao and Jia, Duojie: *Masses and magnetic moments of hadrons with one and two open heavy quarks: Heavy baryons and tetraquarks*. *Phys. Rev. D* 104 114011 (2021). [arXiv:2109.07040 \[hep-ph\]](#).
- E:** Yao, De-Liang and Dai, Ling-Yun and Zheng, Han-Qing and Zhou, Zhi-Yong: *A review on partial-wave dynamics with chiral effective field theory and dispersion relation*. *Rept. Prog. Phys.* 84 076201 (2021). [arXiv:2009.13495 \[hep-ph\]](#).
- T:** Wang, Mengzhen: *Amplitude analysis of the $\Lambda_b^0 \rightarrow J/\psi p K^-$ decay and first observation of the $\Lambda_b^0 \rightarrow \eta_c(1S) p K^-$ decay*. (2021). CERN-THESIS-2021-314.

- E: Shukhtina, A. K.: *Wave Functions of Doubly Heavy Baryons on the Light Cone*. *Phys. Atom. Nucl.* **84** 1957–1961 (2021).
- E: Shi, Rui-Xiang and Geng, Li-Sheng: *Magnetic moments of the spin- $\frac{3}{2}$ doubly charmed baryons in covariant baryon chiral perturbation theory*. *Phys. Rev. D* **103** 114004 (2021). [arXiv:2103.07260 \[hep-ph\]](#).
- E: Shah, Zalak and Kakadiya, Ameer and Gandhi, Keval and Rai, Ajay Kumar: *Properties of Doubly Heavy Baryons*. *Universe* **7** 337 (2021).
- E: Rostami, S. and Azizi, K. and Olamaei, A. R.: *Strong Coupling Constants of the Doubly Heavy Spin-1/2 Baryons with Light Pseudoscalar Mesons*. *Chin. Phys. C* **45** 023120 (2021). [arXiv:2008.12715 \[hep-ph\]](#).
- E: Qiu, Peng-Cheng and Yao, De-Liang: *Chiral effective Lagrangian for doubly charmed baryons up to $\mathcal{O}(q^4)$* . *Phys. Rev. D* **103** 034006 (2021). [arXiv:2012.11117 \[hep-ph\]](#).
- E: Padmanath, M.: *Charm (and bottom) baryons and charmonium excitations from the lattice*. [10th International Workshop on Charm Physics. Proceedings of Science CHARM2020 014](#) (2021). MITP/21-040, [arXiv:2109.04748 \[hep-lat\]](#).
- E: Olamaei, A. R. and Azizi, K. and Rostami, S.: *Strong vertices of doubly heavy spin-3/2 baryons with light pseudoscalar mesons*. *Chin. Phys. C* **45** 113107 (2021). [arXiv:2102.03852 \[hep-ph\]](#).
- E: Li, De-Min and Zhang, Xi-Ruo and Xing, Ye and Xu, Ji: *Weak decays of doubly heavy baryons: four-body nonleptonic decay channels*. *Eur. Phys. J. Plus* **136** 772 (2021). [arXiv:2101.12574 \[hep-ph\]](#).
- E: Li, Hao-Song and Yang, Wen-Li: *Spin- $\frac{3}{2}$ doubly charmed baryon contribution to the magnetic moments of the spin- $\frac{1}{2}$ doubly charmed baryons*. *Phys. Rev. D* **103** 056024 (2021). [arXiv:2012.14596 \[hep-ph\]](#).
- E: Li, Run-Hui and Hou, Juan-Juan and He, Bei and Wang, Ya-Ru: *Weak Decays of Doubly Heavy Baryons: $\mathcal{B}_{cc} \rightarrow \mathcal{B}D^{(*)}$* . *Chin. Phys. C* **45** 043108 (2021). [arXiv:2010.09362 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+ in the $\Xi_c^+ \pi^- \pi^+$ final state*. *JHEP* **12** 107 (2021). LHCb-PAPER-2021-019, CERN-EP-2021-155, [arXiv:2109.07292 \[hep-ex\]](#).
- E: Han, Jia-Jie and Jiang, Hua-Yu and Liu, Wei and Xiao, Zhen-Jun and Yu, Fu-Sheng: *Rescattering mechanism of weak decays of double-charm baryons*. *Chin. Phys. C* **45** 053105 (2021). [arXiv:2101.12019 \[hep-ph\]](#).
- E: Gutiérrez-Guerrero, L. X. and Paredes-Torres, G. and Bashir, A.: *Mesons and baryons: Parity partners*. *Phys. Rev. D* **104** 094013 (2021). [arXiv:2109.09058 \[hep-ph\]](#).
- E: Ghasemi, M. and Sepahvand, R.: *The Effect of Spin Orientation Quark on the Cross-Section Production of Heavy Triply Baryon at the LHC ($\sqrt{S} = 14\text{TeV}$)*. *Int. J. Theor. Phys.* **60** 1261–1274 (2021).
- E: Cheng, Jian-Bo and Li, Shi-Yuan and Liu, Yan-Rui and Si, Zong-Guo and Yao, Tao: *Double-heavy tetraquark states with heavy diquark-antiquark symmetry*. *Chin. Phys. C* **45** 043102 (2021). [arXiv:2008.00737 \[hep-ph\]](#).
- E: Can, Kadir Utku: *Lattice QCD study of the elastic and transition form factors of charmed baryons*. *Int. J. Mod. Phys. A* **36** 2130013 (2021). [arXiv:2107.13159 \[hep-lat\]](#).
- E: Braaten, Eric and He, Li-Ping and Mohapatra, Abhishek: *Masses of doubly heavy tetraquarks with error bars*. *Phys. Rev. D* **103** 016001 (2021). [arXiv:2006.08650 \[hep-ph\]](#).
- E: Bobulska, Dana, LHCb Collaboration: *Charm baryons at LHCb*. [10th International Workshop on Charm Physics. Proceedings of Science CHARM2020 030](#) (2021). LHCb-PROC-2022-001, CERN-LHCb-PROC-2022-001.
- E: Belyaev, I. and Carboni, G. and Harnew, N. and Matteuzzi, C. and Teubert, F.: *The history of LHCb*. *Eur. Phys. J. H* **46** 3 (2021). [arXiv:2101.05331 \[physics.hist-ph\]](#).
- E: Anderle, Daniele P. and others: *Electron-ion collider in China*. *Front. Phys. (Beijing)* **16** 64701 (2021). *Frontiers of Physics*, Volume 16 Issue (6):64701, 2021, [arXiv:2102.09222 \[nucl-ex\]](#).
- E: Aliev, T. M. and Barakat, T. and Şimşek, K.: *Strong $B_{QQ}^*, B_{QQ'}V$ vertices and the radiative decays of $B_{QQ}^* \rightarrow B_{QQ}\gamma$ in the light-cone sum rules*. *Eur. Phys. J. A* **57** 160 (2021). [arXiv:2101.10264 \[hep-ph\]](#).
- E: Aliev, T. M. and Şimşek, K.: *Strong vertices of doubly heavy spin-3/2 –spin-1/2 baryons with light mesons in light-cone QCD sum rules*. *Phys. Rev. D* **103** 054044 (2021). [arXiv:2011.07150 \[hep-ph\]](#).
- E: Abu-Shady, M. and Ahmed, M. M. A. and Gerish, N. H.: *Magnetic Moments and Decay Rates for Double Heavy Baryons in the Non-Relativistic Quark Model*. *Phys. Part. Nucl. Lett.* **18** 294–301 (2021).
- E: Zheng, Xu-Chang and Chang, Chao-Hsi and Feng, Tai-Fu: *A proposal on complementary determination of the effective electro-weak mixing angles via doubly heavy-flavored hadron production at a super Z-factory*. *Sci. China Phys. Mech. Astron.* **63** 281011 (2020). [arXiv:1810.09393 \[hep-ph\]](#).
- E: Zhao, Jiaying and Zhou, Kai and Chen, Shile and Zhuang, Pengfei: *Heavy flavors under extreme conditions in high energy nuclear collisions*. *Prog. Part. Nucl. Phys.* **114** 103801 (2020). [arXiv:2005.08277 \[nucl-th\]](#).
- E: Yu, Fu-Sheng: *Role of decay in the search for double-charm baryons*. *Sci. China Phys. Mech. Astron.* **63** 221065 (2020). [arXiv:1912.10253 \[hep-ex\]](#).
- E: Wu, Xing-Gang: *A new search for the doubly charmed baryon Ξ_{cc}^+ at the LHC*. *Sci. China Phys. Mech. Astron.* **63** 221063 (2020). [arXiv:1912.01953 \[hep-ex\]](#).
- E: Vogt, Ramona and Brodsky, Stanley J.: *Intrinsic charm production of doubly charmed baryons: Collider vs. fixed-target*. *Sci. China Phys. Mech. Astron.* **63** 221066 (2020).
- E: Tan, Yue and Lu, Weichang and Ping, Jialun: *Systematics of $QQ\bar{q}\bar{q}$ in a chiral constituent quark model*. *Eur. Phys. J. Plus* **135** 716 (2020). [arXiv:2004.02106 \[hep-ph\]](#).

- E:** Sun, Zhan and Wu, Xing-Gang: *The production of the doubly charmed baryon in deeply inelastic ep scattering at the Large Hadron Electron Collider.* *JHEP* 07 034 (2020). [arXiv:2004.01012 \[hep-ph\]](#).
- E:** Soto, Joan and Tarrús Castellà, Jaume: *Effective field theory for double heavy baryons at strong coupling.* *Phys. Rev. D* 102 014013 (2020). [arXiv:2005.00551 \[hep-ph\]](#).
- E:** Ren, X. L. and Malabarba, Brenda B. and Geng, L. S. and Khemchandani, K. P. and Torres, A. Martínez: *Multiple charm and hidden charm mesons with strangeness.* [doi:10.1142/9789811219313%5F0055](#) (2020). [arXiv:1912.02161 \[hep-ph\]](#).
- E:** Rahmani, S. and Hassanabadi, H. and Sobhani, H.: *Mass and decay properties of double heavy baryons with a phenomenological potential model.* *Eur. Phys. J. C* 80 312 (2020).
- E:** Quigg, Chris: *Beauty at High Precision / Sensitivity.* 18th International Conference on B-Physics at Frontier Machines. *Proceedings of Science Beauty2019* 001 (2020). FERMILAB-CONF-20-071-T, [arXiv:2002.08292 \[hep-ph\]](#).
- E:** Praszalowicz, Michal: *Doubly heavy QQ tetraquarks.* *Acta Phys. Polon. Supp.* 13 103–108 (2020). [arXiv:1904.02676 \[hep-ph\]](#).
- T:** Pereira Pires Pavao, Rafael: *Dynamics of charmed and bottomed meson and baryon resonances.* (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* 2020 083C01 (2020).
- E:** Parkhomenko, Alexander and Shukhtina, Alice: *Light-Cone Distribution Amplitudes of Doubly-Heavy Baryons.* *J. Phys. Conf. Ser.* 1690 012081 (2020).
- E:** Özdem, Ulaş: *Magnetic dipole moments of the spin- $\frac{3}{2}$ doubly heavy baryons.* *Eur. Phys. J. A* 56 34 (2020). [arXiv:1906.08353 \[hep-ph\]](#).
- E:** Olamaei, A. R. and Azizi, K. and Rostami, S.: *Strong coupling constants of the doubly heavy Ξ_{cQ} Baryons with π Meson.* *Eur. Phys. J. C* 80 613 (2020). [arXiv:2003.12723 \[hep-ph\]](#).
- E:** Needham, Matthew, LHCb Collaboration: *Spectroscopy at LHCb - conventional states.* 18th International Conference on B-Physics at Frontier Machines. *Proceedings of Science Beauty2019* 012 (2020).
- E:** Medina-Carrillo, B. and Sánchez-Colón, G. and Gupta, V.: *Strong interaction coupling-constant sum rules for heavy hadrons with broken SU(3) symmetry.* *Mod. Phys. Lett. A* 35 2050284 (2020).
- E:** Aaij, Roel and others, LHCb Collaboration: *Measurement of Ξ_{cc}^{++} production in pp collisions at $\sqrt{s} = 13$ TeV.* *Chin. Phys. C* 44 022001 (2020). LHCb-PAPER-2019-035, CERN-EP-2019-220, [arXiv:1910.11316 \[hep-ex\]](#).
- E:** Aaij, Roel and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+ .* *Sci. China Phys. Mech. Astron.* 63 221062 (2020). LHCb-PAPER-2019-029, CERN-EP-2019-199, [arXiv:1909.12273 \[hep-ex\]](#).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons.* (2020).
- E:** Koppenburg, Patrick: *Beauty 2019 — Conference summary.* 18th International Conference on B-Physics at Frontier Machines. *Proceedings of Science Beauty2019* 058 (2020). [arXiv:2001.11796 \[hep-ex\]](#).
- E:** Ke, Hong-Wei and Lu, Fang and Liu, Xiao-Hai and Li, Xue-Qian: *Study on $\Xi_{cc} \rightarrow \Xi_c$ and $\Xi_{cc} \rightarrow \Xi'_c$ weak decays in the light-front quark model.* *Eur. Phys. J. C* 80 140 (2020). [arXiv:1912.01435 \[hep-ph\]](#).
- E:** Karliner, Marek and Rosner, Jonathan L.: *LHCb gets closer to discovering the second doubly charmed baryon.* *Sci. China Phys. Mech. Astron.* 63 221064 (2020). [arXiv:1912.01963 \[hep-ex\]](#).
- E:** Kaneko, Takashi: *Lattice QCD: Hadron Spectroscopy and Flavor Physics.* [doi:10.1142/9789811207402%5F0019](#) (2020). KEK-CP-366, [arXiv:1807.04134 \[hep-lat\]](#).
- T:** Gross, Johnathan Loren: *Calculation of Isospin Symmetry Violating Baryon Mass Splittings and Hybrid Baryon Masses.* (2020).
- E:** Gridin, Andrei and Groote, Stefan and Guskov, Alexey and Koshkarev, Sergey: *Phenomenological study for the search of evidence for intrinsic charm at the COMPASS experiment.* *Phys. Part. Nucl. Lett.* 17 826–833 (2020). [arXiv:1901.01712 \[hep-ph\]](#).
- E:** Gersabeck, Evelina and Pich, Antonio: *Tau and charm decays.* *Comptes Rendus Physique* 21 75–92 (2020).
- E:** Delpasand, Mahdi and Moosavi Nejad, S. Mohammad: *Ω_{ccc} baryon production from gluon in vector diquark fragmentation.* *Eur. Phys. J. A* 56 56 (2020).
- E:** Cho, Sungtae and Lee, Su Houng: *Production of multicharmed hadrons by recombination in heavy ion collisions.* *Phys. Rev. C* 101 024902 (2020). [arXiv:1907.12786 \[nucl-th\]](#).
- E:** Brambilla, Nora and Eidelman, Simon and Hanhart, Christoph and Nefediev, Alexey and Shen, Cheng-Ping and Thomas, Christopher E. and Vairo, Antonio and Yuan, Chang-Zheng: *The XYZ states: experimental and theoretical status and perspectives.* *Phys. Rept.* 873 1–154 (2020). TUM-EFT 125/19, [arXiv:1907.07583 \[hep-ex\]](#).
- E:** Bjorken, J. D. and others: *Community Support for A Fixed-Target Programme for the LHC.* (2020).
- E:** Berezhnoy, A. V. and Belov, I. N. and Likhoded, A. K.: *Production of Excited States of Doubly Heavy Baryons at the Large Hadron Collider.* *Phys. Atom. Nucl.* 83 892–898 (2020). [arXiv:2005.04760 \[hep-ph\]](#).
- E:** Bahtiyar, Huseyin and Can, Kadir Utku and Erkol, Guray and Gubler, Philipp and Oka, Makoto and Takahashi, Toru T.: *Charmed baryon spectrum from lattice QCD near the physical point.* *Phys. Rev. D* 102 054513 (2020). [arXiv:2004.08999 \[hep-lat\]](#).

- E: Azizi, K. and Olamaei, A. R. and Rostami, S.: *Strong interaction of doubly heavy spin-3/2 baryons with light vector mesons*. *Eur. Phys. J. C* **80** 1196 (2020). [arXiv:2011.02919 \[hep-ph\]](#).
- E: Alrebdī, H. I. and Aliev, T. M. and Şimşek, K.: *Determination of the strong vertices of doubly heavy baryons with pseudoscalar mesons in QCD*. *Phys. Rev. D* **102** 074007 (2020). [arXiv:2008.05098 \[hep-ph\]](#).
- E: Alomayrah, Norah and Barakat, T.: *The excited states of triply-heavy baryons in QCD sum rules*. *Eur. Phys. J. A* **56** 76 (2020).
- E: Aliev, T. M. and Şimşek, K.: *Strong coupling constants of doubly heavy baryons with vector mesons in QCD*. *Eur. Phys. J. C* **80** 976 (2020). [arXiv:2009.03464 \[hep-ph\]](#).
- E: Yu, Q. X. and Pavao, R. and Debastiani, V. R. and Oset, E.: *Description of the Ξ_c and Ξ_b states as molecular states*. *Eur. Phys. J. C* **79** 167 (2019). [arXiv:1811.11738 \[hep-ph\]](#).
- E: Yu, Qi-Xin and Guo, Xin-Heng: *Masses of doubly heavy baryons in the Bethe-Salpeter equation approach*. *Nucl. Phys. B* **947** 114727 (2019). [arXiv:1810.00437 \[hep-ph\]](#).
- T: Yao, Xiaojun: *Application of Effective Field Theory in Nuclear Physics*. (2019). [arXiv:1911.08500 \[nucl-th\]](#).
- E: Xu, Hao and Wang, Bo and Liu, Zhan-Wei and Liu, Xiang: *DD^* potentials in chiral perturbation theory and possible molecular states*. *Phys. Rev. D* **99** 014027 (2019). [Erratum: *Phys. Rev. D* **104**, 119903 (2021)], [arXiv:1708.06918 \[hep-ph\]](#).
- E: Wang, Chen-Yu and Meng, Ce and Ma, Yan-Qing and Chao, Kuang-Ta: *NLO effects for doubly heavy baryons in QCD sum rules*. *Phys. Rev. D* **99** 014018 (2019). [arXiv:1708.04563 \[hep-ph\]](#).
- E: Vieira, Daniel: *Measurements with doubly-charmed hadrons in LHCb*. *EPJ Web Conf.* **202** 02003 (2019).
- T: Traill, Murdo: *Searches for Doubly Charmed Baryons at LHCb*. (2019). CERN-THESIS-2019-156.
- E: Stancu, Fl: *Spectrum of the $uudc\bar{c}$ hidden charm pentaquark with an $SU(4)$ flavor-spin hyperfine interaction*. *Eur. Phys. J. C* **79** 957 (2019). [arXiv:1902.07101 \[hep-ph\]](#).
- E: Solovieva, Elena: *Latest Results in Charmed Baryons Spectroscopy*. *EPJ Web Conf.* **222** 03020 (2019).
- E: Shah, Zalak and Rai, Ajay Kumar: *Revisited: the spectra of doubly heavy Ξ_{cc} baryon*. *DAE Symp. Nucl. Phys.* **64** 695–696 (2019).
- E: Salehi, N.: *Spectroscopy of Ω_{cc} , Ω_{bb} and Ω_{bc} Baryons in Hypercentral Constituent Quark Model via Ansatz Method*. *Acta Phys. Polon. B* **50** 735–752 (2019).
- E: Rosner, Jonathan L.: *Heavy-quark exotics*. (2019). [arXiv:1909.02120 \[hep-ph\]](#).
- T: Rajendrakumar, Soni Nakul: *Study of decay properties of heavy flavor and exotic hadrons*. (2019).
- E: Padmanath, M.: *Heavy baryon spectroscopy from lattice QCD*. (2019). [arXiv:1905.10168 \[hep-lat\]](#).
- E: Özdem, Ulas: *Magnetic moments of doubly heavy baryons in light-cone QCD*. *J. Phys. G* **46** 035003 (2019). [arXiv:1804.10921 \[hep-ph\]](#).
- E: Ortiz-Pacheco, Emmanuel and Bijker, Roelof and Fernández-Ramírez, César: *Hidden charm pentaquarks: mass spectrum, magnetic moments, and photocouplings*. *J. Phys. G* **46** 065104 (2019). [arXiv:1808.10512 \[nucl-th\]](#).
- E: Nishida, Shohei: *Recent Results with Charm Baryons*. *Springer Proc. Phys.* **234** 37–44 (2019).
- E: Mehen, Thomas C. and Mohapatra, Abhishek: *Perturbative Corrections to Heavy Quark-Diquark Symmetry Predictions for Doubly Heavy Baryon Hyperfine Splittings*. *Phys. Rev. D* **100** 076014 (2019). [arXiv:1905.06965 \[hep-ph\]](#).
- E: Martínez Torres, A. and Khemchandani, K. P. and Geng, Li-Sheng: *Bound state formation in the DDK system*. *Phys. Rev. D* **99** 076017 (2019). [arXiv:1809.01059 \[hep-ph\]](#).
- E: Li, Shi-Yuan and Liu, Yan-Rui and Liu, Yu-Nan and Si, Zong-Guo and Wu, Jing: *Pentaquark states with the $QQQq\bar{q}$ configuration in a simple model*. *Eur. Phys. J. C* **79** 87 (2019). [arXiv:1809.08072 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *A search for $\Xi_{cc}^{++} \rightarrow D^+ p K^- \pi^+$ decays*. *JHEP* **10** 124 (2019). LHCb-PAPER-2019-011, CERN-EP-2019-067, [arXiv:1905.02421 \[hep-ex\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX-LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- T: Koomi, Zachary: *Isospin Violating Hadronic Mass Splittings using Lattice QCD+QED*. (2019).
- E: Hu, Y., BESIII Collaboration: *Charmonium and Charm Spectroscopy*. (2019). [arXiv:1906.08998 \[hep-ex\]](#).
- E: Gutiérrez-Guerrero, L. X. and Bashir, Adnan and Bedolla, Marco A. and Santopinto, E.: *Masses of Light and Heavy Mesons and Baryons: A Unified Picture*. *Phys. Rev. D* **100** 114032 (2019). [arXiv:1911.09213 \[nucl-th\]](#).
- E: Er, N. and Azizi, K.: *Fate of the doubly heavy spin-3/2 baryons in a dense medium*. *Phys. Rev. D* **99** 074012 (2019). [arXiv:1901.07399 \[hep-ph\]](#).
- E: Delpasand, Mahdi and Moosavi Nejad, S. Mohammad: *Gluon fragmentation into triply heavy baryons considering two various scenarios*. *Phys. Rev. D* **99** 114028 (2019).
- E: Chen, Gu and Wu, Xing-Gang and Xu, Shuai: *Impacts of the intrinsic charm content of the proton on the Ξ_{cc} hadroproduction at a fixed target experiment at the LHC*. *Phys. Rev. D* **100** 054022 (2019). [arXiv:1903.00722 \[hep-ph\]](#).

- E: Cerri, A. and others: *Report from Working Group 4: Opportunities in Flavour Physics at the HL-LHC and HE-LHC*. CERN Yellow Rep. Monogr. 7 867–1158 (2019). CERN-LPCC-2018-06, [arXiv:1812.07638 \[hep-ph\]](#).
- E: Cardinale, Roberta, LHCb Collaboration: *Results from Charm baryon spectroscopy at LHCb, Belle and BESIII*. XXVII International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2019 147 (2019).
- E: Can, Kadir Utku and Bahtiyar, Huseyin and Erkol, Guray and Gubler, Philipp and Oka, Makoto and Takahashi, Toru T.: *Spectrum of the Charmed Baryons in 2+1-flavor Lattice QCD*. JPS Conf. Proc. 26 022028 (2019).
- T: Burr, Christopher: *Searching for rare charm decays, performing alignment studies and improving the analysis ecosystem in HEP*. (2019).
- E: Bahtiyar, Huseyin and Can, Kadir Utku and Erkol, Guray and Oka, Makoto and Takahashi, Toru T.: *Radiative Transitions of Singly and Doubly Charmed Baryons in Lattice QCD*. JPS Conf. Proc. 26 022027 (2019).
- E: Azizi, K. and Er, N.: *Effects of a dense medium on parameters of doubly heavy baryons*. Phys. Rev. D 100 074004 (2019). [arXiv:1906.09087 \[hep-ph\]](#).
- E: An, Hong-Tao and Zhou, Qin-Song and Liu, Zhan-Wei and Liu, Yan-Rui and Liu, Xiang: *Exotic pentaquark states with the $qqQq\bar{Q}$ configuration*. Phys. Rev. D 100 056004 (2019). [arXiv:1905.07858 \[hep-ph\]](#).
- E: Aliev, T. M. and Bilmis, S.: *The mass and residues of radially and orbitally excited doubly heavy baryons in QCD*. Nucl. Phys. A 984 99–111 (2019). [arXiv:1904.11279 \[hep-ph\]](#).
- E: Zhou, Qin-Song and Chen, Kan and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *Surveying exotic pentaquarks with the typical $QQq\bar{q}$ configuration*. Phys. Rev. C 98 045204 (2018). LZU-2018-01, [arXiv:1801.04557 \[hep-ph\]](#).
- E: Zhang, Qi-An: *Weak Decays of Doubly Heavy Baryons: W-Exchange*. Eur. Phys. J. C 78 1024 (2018). [arXiv:1811.02199 \[hep-ph\]](#).
- E: Yu, Fu-Sheng and Jiang, Hua-Yu and Li, Run-Hui and Lü, Cai-Dian and Wang, Wei and Zhao, Zhen-Xing: *Discovery Potentials of Doubly Charmed Baryons*. Chin. Phys. C 42 051001 (2018). [arXiv:1703.09086 \[hep-ph\]](#).
- E: Yao, Xiaojun and Müller, Berndt: *Doubly charmed baryon production in heavy ion collisions*. Phys. Rev. D 97 074003 (2018). [arXiv:1801.02652 \[hep-ph\]](#).
- E: Yao, De-Liang: *Masses and sigma terms of doubly charmed baryons up to $\mathcal{O}(p^4)$ in manifestly Lorentz-invariant baryon chiral perturbation theory*. Phys. Rev. D 97 034012 (2018). [arXiv:1801.09462 \[hep-ph\]](#).
- E: Xu, Ao, LHCb Collaboration: *Heavy Flavour Spectroscopy at LHCb*. Int. J. Mod. Phys. Conf. Ser. 46 1860031 (2018).
- E: Xiao, Li-Ye and Lü, Qi-Fang and Zhu, Shi-Lin: *Strong decays of the 1P and 2D doubly charmed states*. Phys. Rev. D 97 074005 (2018). [arXiv:1712.07295 \[hep-ph\]](#).
- E: Wu, Jing and Liu, Yan-Rui and Chen, Kan and Liu, Xiang and Zhu, Shi-Lin: *Heavy-flavored tetraquark states with the $QQ\bar{Q}\bar{Q}$ configuration*. Phys. Rev. D 97 094015 (2018). [arXiv:1605.01134 \[hep-ph\]](#).
- E: Weng, Xin-Zhen and Chen, Xiao-Lin and Deng, Wei-Zhen: *Masses of doubly heavy-quark baryons in an extended chromomagnetic model*. Phys. Rev. D 97 054008 (2018). [arXiv:1801.08644 \[hep-ph\]](#).
- T: Vejdani, Solmaz: *Particle-Identification Capability of the Straw Tube Tracker and Feasibility Studies for the Charmed-Baryon Program with PANDA*. (2018).
- E: Traill, Murdo Thomas, LHCb Collaboration: *Spectroscopy of doubly-heavy baryons at LHCb*. XVII International Conference on Hadron Spectroscopy and Structure. Proceedings of Science Hadron2017 067 (2018).
- E: Solovieva, Elena: *Recent developments in charmed baryon spectroscopy*. EPJ Web Conf. 191 02013 (2018).
- E: Shi, Yu-Ji and Wang, Wei and Xing, Ye and Xu, Ji: *Weak Decays of Doubly Heavy Baryons: Multi-body Decay Channels*. Eur. Phys. J. C 78 56 (2018). [arXiv:1712.03830 \[hep-ph\]](#).
- E: Salehi, Nasrin and Mohajery, Neda: *An efficient method for obtaining the ground and excited states mass spectrum of doubly heavy Ω baryons*. Eur. Phys. J. Plus 133 416 (2018).
- E: Quigg, Chris: *Stable Tetraquarks*. (2018). FERMLAB-CONF-18-099-T, [arXiv:1804.04929 \[hep-ph\]](#).
- E: Qin, Si-Xue and Roberts, Craig D. and Schmidt, Sebastian M.: *Poincaré-covariant analysis of heavy-quark baryons*. Phys. Rev. D 97 114017 (2018). [arXiv:1801.09697 \[nucl-th\]](#).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. Phys. Rev. D 98 030001 (2018).
- E: Padmanath, M.: *Hadron Spectroscopy and Resonances: Review*. The 36th Annual International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2018 013 (2018). [arXiv:1905.09651 \[hep-lat\]](#).
- E: Olsen, Stephen Lars and Skwarnicki, Tomasz and Zieminska, Daria: *Nonstandard heavy mesons and baryons: Experimental evidence*. Rev. Mod. Phys. 90 015003 (2018). [arXiv:1708.04012 \[hep-ph\]](#).
- E: Nielsen, Marina and Brodsky, Stanley J. and de Téramond, Guy F. and Dosch, Hans Günter and Navarra, Fernando S. and Zou, Liping: *Supersymmetry in the Double-Heavy Hadronic Spectrum*. Phys. Rev. D 98 034002 (2018). [arXiv:1805.11567 \[hep-ph\]](#).
- E: Nielsen, Marina and Brodsky, Stanley J.: *Hadronic superpartners from a superconformal and supersymmetric algebra*. Phys. Rev. D 97 114001 (2018). SLAC-PUB-17231, [arXiv:1802.09652 \[hep-ph\]](#).
- E: Mohler, Daniel: *Heavy-hadron interactions from Lattice QCD*. EPJ Web Conf. 181 01027 (2018).

- E: Meng, Lu and Li, Ning and Zhu, Shi-lin: *Possible hadronic molecules composed of the doubly charmed baryon and nucleon*. *Eur. Phys. J. A* **54** 143 (2018). [arXiv:1707.03598 \[hep-ph\]](#).
- E: Liu, Ming-Zhu and Xiao, Yang and Geng, Li-Sheng: *Magnetic moments of the spin-1/2 doubly charmed baryons in covariant baryon chiral perturbation theory*. *Phys. Rev. D* **98** 014040 (2018). [arXiv:1807.00912 \[hep-ph\]](#).
- E: Likhoded, A. K. and Luchinsky, A. V.: *Lifetimes of Doubly Heavy Baryons*. *Phys. Atom. Nucl.* **81** 737–747 (2018).
- E: Li, Run-Hui and Lu, Cai-Dian: *Search for doubly heavy baryon via weak decays*. (2018). [arXiv:1805.09064 \[hep-ph\]](#).
- E: Li, Hao-Song and Meng, Lu and Liu, Zhan-Wei and Zhu, Shi-Lin: *Radiative decays of the doubly charmed baryons in chiral perturbation theory*. *Phys. Lett. B* **777** 169–176 (2018). [arXiv:1708.03620 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++}* . *Phys. Rev. Lett.* **121** 052002 (2018). LHCb-PAPER-2018-019, CERN-EP-2018-146, LHCb-PAPER-2018-019, [arXiv:1806.02744 \[hep-ex\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Analysis of the baryonic state $[[qc]c]$* . (2018). [arXiv:1803.07034 \[hep-ph\]](#).
- E: Kiselev, V. V. and Berezhnoy, A. V. and Likhoded, A. K.: *Quark–Diquark Structure and Masses of Doubly Charmed Baryons*. *Phys. Atom. Nucl.* **81** 369–372 (2018). [arXiv:1706.09181 \[hep-ph\]](#).
- E: Kerbikov, B. O.: *Doubly charmed baryon mass and wave function through a random walks method*. *JETP Lett.* **107** 273–275 (2018). [arXiv:1707.04031 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Strange baryons with two heavy quarks*. *Phys. Rev. D* **97** 094006 (2018). EFT 17-16, TAUP 3022/17, EFT-17-16, TAUP-3022-17, [arXiv:1803.01657 \[hep-ph\]](#).
- E: Jiang, Li-Juan and He, Bei and Li, Run-Hui: *Weak decays of doubly heavy baryons: $\mathcal{B}_{cc} \rightarrow \mathcal{B}_c V$* . *Eur. Phys. J. C* **78** 961 (2018). [arXiv:1810.00541 \[hep-ph\]](#).
- E: Hu, Xiao-Hui and Shen, Yue-Long and Wang, Wei and Zhao, Zhen-Xing: *Weak decays of doubly heavy baryons: "decay constants"*. *Chin. Phys. C* **42** 123102 (2018). [arXiv:1711.10289 \[hep-ph\]](#).
- E: Horsley, R. and Koumi, Z. and Nakamura, Y. and Perlt, H. and Rakow, P. E. L. and Schierholz, G. and Schiller, A. and Stuben, H. and Young, R. D. and Zanotti, J. M.: *Charmed states and flavour symmetry breaking*. *EPJ Web Conf.* **175** 06017 (2018). ADP-17-35-T1041, DESY-17-181, EDINBURGH-2017-23, LIVERPOOL-LTH-1144, [arXiv:1711.02485 \[hep-lat\]](#).
- E: Hiller Blin, Astrid N. and Sun, Zhi-Feng and Vicente Vacas, M. J.: *Electromagnetic form factors of spin 1/2 doubly charmed baryons*. *Phys. Rev. D* **98** 054025 (2018). [arXiv:1807.01059 \[hep-ph\]](#).
- E: Geng, C. Q. and Hsiao, Y. K. and Liu, Chia-Wei and Tsai, Tien-Hsueh: *Antitriplet charmed baryon decays with $SU(3)$ flavor symmetry*. *Phys. Rev. D* **97** 073006 (2018). [arXiv:1801.03276 \[hep-ph\]](#).
- E: Gadaria, A. N. and Soni, N. R. and Chaturvedi, Raghav and Kumar Rai, Ajay and Pandya, J. N.: *Decay properties of Ξ_{cc}^{++} baryon*. *DAE Symp. Nucl. Phys.* **63** 912–913 (2018).
- E: Dias, J. M. and Debastiani, V. R. and Xie, J. -Jun and Oset, E.: *Doubly charmed Ξ_{cc} molecular states from meson-baryon interaction*. *Phys. Rev. D* **98** 094017 (2018). [arXiv:1805.03286 \[hep-ph\]](#).
- E: Cushman, K. K. and Thomas, A. W. and Young, R. D.: *Charge symmetry violation in the doubly charmed cascade masses*. (2018). ADP-18-11/T1059, ADP-18-11-T1059, [arXiv:1804.05031 \[nucl-th\]](#).
- E: Cui, Er-Liang and Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Zhu, Shi-Lin: *Suggested search for doubly charmed baryons of $J^P = 3/2^+$ via their electromagnetic transitions*. *Phys. Rev. D* **97** 034018 (2018). [arXiv:1712.03615 \[hep-ph\]](#).
- E: Chen, Gu and Chang, Chao-Hsi and Wu, Xing-Gang: *Hadronic production of the doubly charmed baryon via the proton–nucleus and the nucleus–nucleus collisions at the RHIC and LHC*. *Eur. Phys. J. C* **78** 801 (2018). [arXiv:1808.03174 \[hep-ph\]](#).
- E: Cardinale, Roberta, LHCb Collaboration: *LHCb spectroscopy results*. *Sixth Annual Conference on Large Hadron Collider Physics. Proceedings of Science LHCP2018* 191 (2018).
- E: Bursche, Albert, LHCb Collaboration: *Highlights from LHCb*. *EPJ Web Conf.* **171** 01008 (2018). 1796116 "1796116 1796116.
- E: Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E: Bahtiyar, H. and Can, K. U. and Erkol, G. and Oka, M. and Takahashi, T. T.: *Radiative transitions of doubly charmed baryons in lattice QCD*. *Phys. Rev. D* **98** 114505 (2018). [arXiv:1807.06795 \[hep-lat\]](#).
- E: Azizi, K. and Olamaei, A. R. and Rostami, S.: *Beautiful mathematics for beauty-full and other multi-heavy hadronic systems*. *Eur. Phys. J. A* **54** 162 (2018). [arXiv:1801.06789 \[hep-ph\]](#).
- E: Amsler, Claude: *The Quark Structure of Hadrons: An Introduction to the Phenomenology and Spectroscopy*. [doi:10.1007/978-3-319-98527-5](#) (2018).
- E: Zhao, Jiaying and Zhuang, Pengfei: *Multicharmed Baryon Production in High Energy Nuclear Collisions*. *Few Body Syst.* **58** 100 (2017).
- E: Zhao, Jiaying and He, Hang and Zhuang, Pengfei: *Searching for Ξ_{cc}^+ in Relativistic Heavy Ion Collisions*. *Phys. Lett. B* **771** 349–353 (2017). [arXiv:1603.04524 \[nucl-th\]](#).

- E: Yu, Guo Liang and Wang, Zhi Gang and Li, Zhen Yu: *Analysis of the strong vertexes of Σ_c^*ND and Σ_b^*NB in QCD sum rules.* *Int. J. Mod. Phys. A* 32 1750203 (2017). [arXiv:1705.03229 \[hep-ph\]](#).
- E: Yu, Guo Liang and Wang, Zhi Gang and Li, Zhen Yu: *Analysis of the strong coupling form factors of Σ_bNB and Σ_cND in QCD sum rules.* *Chin. Phys. C* 41 083104 (2017). [arXiv:1608.03460 \[hep-ph\]](#).
- E: Xiao, Li-Ye and Wang, Kai-Lei and Lu, Qi-fang and Zhong, Xian-Hui and Zhu, Shi-Lin: *Strong and radiative decays of the doubly charmed baryons.* *Phys. Rev. D* 96 094005 (2017). [arXiv:1708.04384 \[hep-ph\]](#).
- E: Wang, Wei and Yu, Fu-Sheng and Zhao, Zhen-Xing: *Weak decays of doubly heavy baryons: the $1/2 \rightarrow 1/2$ case.* *Eur. Phys. J. C* 77 781 (2017). [arXiv:1707.02834 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $QQ\bar{Q}\bar{Q}$ tetraquark states with QCD sum rules.* *Eur. Phys. J. C* 77 432 (2017). [arXiv:1701.04285 \[hep-ph\]](#).
- E: Wang, Wei and Xing, Zhi-Peng and Xu, Ji: *Weak Decays of Doubly Heavy Baryons: $SU(3)$ Analysis.* *Eur. Phys. J. C* 77 800 (2017). [arXiv:1707.06570 \[hep-ph\]](#).
- E: Trunin, A. M.: *Pair production of (bc) diquarks at the LHC.* *Phys. Part. Nucl.* 48 868–870 (2017).
- E: Spradlin, Patrick, LHCb Collaboration: *Discovery of the doubly charmed baryon Ξ_{cc}^{++} at LHCb.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 408* (2017). LHCb-PROC-2017-036.
- E: Sharma, Neelesh and Dhir, Rohit: *Estimates of W -exchange contributions to Ξ_{cc} decays.* *Phys. Rev. D* 96 113006 (2017). [arXiv:1709.08217 \[hep-ph\]](#).
- E: Shah, Zalak and Rai, Ajay Kumar: *Excited state mass spectra of doubly heavy Ξ baryons.* *Eur. Phys. J. C* 77 129 (2017). [arXiv:1702.02726 \[hep-ph\]](#).
- E: Serrano, Justine: *Rare decays and exotic states in quark flavour physics.* *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017 602* (2017).
- E: Moosavi Nejad, S. Mohammad: *NLO QCD corrections to triply heavy baryon fragmentation function considering the effect of nonperturbative dynamics of baryon bound states.* *Phys. Rev. D* 96 114021 (2017).
- E: Meng, Lu and Li, Ning and Zhu, Shi-Lin: *Deuteron-like states composed of two doubly charmed baryons.* *Phys. Rev. D* 95 114019 (2017). [arXiv:1704.01009 \[hep-ph\]](#).
- E: Meng, Lu and Li, Hao-Song and Liu, Zhan-Wei and Zhu, Shi-Lin: *Magnetic moments of the $spin-\frac{3}{2}$ doubly heavy baryons.* *Eur. Phys. J. C* 77 869 (2017). [arXiv:1710.08283 \[hep-ph\]](#).
- E: Mehen, Thomas: *Implications of Heavy Quark-Diquark Symmetry for Excited Doubly Heavy Baryons and Tetraquarks.* *Phys. Rev. D* 96 094028 (2017). [arXiv:1708.05020 \[hep-ph\]](#).
- E: Lü, Qi-Fang and Wang, Kai-Lei and Xiao, Li-Ye and Zhong, Xian-Hui: *Mass spectra and radiative transitions of doubly heavy baryons in a relativized quark model.* *Phys. Rev. D* 96 114006 (2017). [arXiv:1708.04468 \[hep-ph\]](#).
- E: Li, Run-Hui and Lü, Cai-Dian and Wang, Wei and Yu, Fu-Sheng and Zou, Zhi-Tian: *Doubly-heavy baryon weak decays: $\Xi_{bc}^0 \rightarrow pK^-$ and $\Xi_{cc}^+ \rightarrow \Sigma_c^{++}(2520)K^-$.* *Phys. Lett. B* 767 232–235 (2017). [arXiv:1701.03284 \[hep-ph\]](#).
- E: Li, Hao-Song and Meng, Lu and Liu, Zhan-Wei and Zhu, Shi-Lin: *Magnetic moments of the doubly charmed and bottom baryons.* *Phys. Rev. D* 96 076011 (2017). [arXiv:1707.02765 \[hep-ph\]](#).
- E: Aaij, Roel and others, LHCb Collaboration: *Observation of the doubly charmed baryon Ξ_{cc}^{++} .* *Phys. Rev. Lett.* 119 112001 (2017). LHCb-PAPER-2017-018, CERN-EP-2017-156, [arXiv:1707.01621 \[hep-ex\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Signals of the double intrinsic heavy quark at the current experiments.* *J. Phys. Conf. Ser.* 938 012054 (2017). [arXiv:1711.07252 \[hep-ph\]](#).
- E: Koshkarev, Sergey and Anikeev, Vladimir: *Production of the doubly charmed baryons at the SELEX experiment – The double intrinsic charm approach.* *Phys. Lett. B* 765 171–174 (2017). [arXiv:1605.03070 \[hep-ph\]](#).
- E: Koshkarev, Sergey and Groote, Stefan: *Double quarkonium production at high Feynman- x .* *Nucl. Phys. B* 915 384–391 (2017). [arXiv:1611.08149 \[hep-ph\]](#).
- E: Koshkarev, Sergey: *Production of the Doubly Heavy Baryons, B_c Meson and the All-charm Tetraquark at AF-TER@LHC with Double Intrinsic Heavy Mechanism.* *Acta Phys. Polon. B* 48 163 (2017). [arXiv:1610.06125 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Discovery of doubly-charmed Ξ_{cc} baryon implies a stable $(bb\bar{u})$ tetraquark.* *Phys. Rev. Lett.* 119 202001 (2017). EFI-17-17, TAUP-3021-17, [arXiv:1707.07666 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Isospin splittings in baryons with two heavy quarks.* *Phys. Rev. D* 96 033004 (2017). EFI-17-14, TAUP-3019-17, [arXiv:1706.06961 \[hep-ph\]](#).
- E: Hansen, Maxwell T. and Meyer, Harvey B. and Robaina, Daniel: *From deep inelastic scattering to heavy-flavor semileptonic decays: Total rates into multihadron final states from lattice QCD.* *Phys. Rev. D* 96 094513 (2017). [arXiv:1704.08993 \[hep-lat\]](#).
- E: Guo, Zhi-Hui: *Prediction of exotic doubly charmed baryons within chiral effective field theory.* *Phys. Rev. D* 96 074004 (2017). [arXiv:1708.04145 \[hep-ph\]](#).
- E: Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest.* *Eur. Phys. J. C* 77 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E: Geng, C. Q. and Hsiao, Y. K. and Liu, Chia-Wei and Tsai, Tien-Hsueh: *Charmed Baryon Weak Decays with $SU(3)$ Flavor Symmetry.* *JHEP* 11 147 (2017). [arXiv:1709.00808 \[hep-ph\]](#).

- E: Eichten, Estia J. and Quigg, Chris: *Heavy-quark symmetry implies stable heavy tetraquark mesons $Q_i Q_j \bar{q}_k \bar{q}_l$* . *Phys. Rev. Lett.* **119** 202002 (2017). FERMILAB-PUB-17-289-T, [arXiv:1707.09575 \[hep-ph\]](#).
- E: Chen, Hua-Xing and Mao, Qiang and Chen, Wei and Liu, Xiang and Zhu, Shi-Lin: *Establishing low-lying doubly charmed baryons*. *Phys. Rev. D* **96** 031501 (2017). [Erratum: *Phys.Rev.D* **96**, 119902 (2017)], [arXiv:1707.01779 \[hep-ph\]](#).
- E: Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *A review of the open charm and open bottom systems*. *Rept. Prog. Phys.* **80** 076201 (2017). [arXiv:1609.08928 \[hep-ph\]](#).
- E: Chen, Kan and Liu, Xiang and Wu, Jing and Liu, Yan-Rui and Zhu, Shi-Lin: *Tripily heavy tetraquark states with the $QQQ\bar{q}$ configuration*. *Eur. Phys. J. A* **53** 5 (2017). [arXiv:1609.06117 \[hep-ph\]](#).
- E: Chen, Wei and Chen, Hua-Xing and Liu, Xiang and Steele, T. G. and Zhu, Shi-Lin: *Hunting for exotic doubly hidden-charm/bottom tetraquark states*. *Phys. Lett. B* **773** 247–251 (2017). [arXiv:1605.01647 \[hep-ph\]](#).
- E: Briceño, Raúl A.: *Viewpoint: A Doubly Charming Particle*. *APS Physics* **10** 100 (2017).
- E: Bi, Huan-Yu and Zhang, Ren-You and Wu, Xing-Gang and Ma, Wen-Gan and Li, Xiao-Zhou and Owusu, Samuel: *Photoproduction of doubly heavy baryon at the LHeC*. *Phys. Rev. D* **95** 074020 (2017). [arXiv:1702.07181 \[hep-ph\]](#).
- E: Alexandrou, Constantia and Kallidonis, Christos: *Low-lying baryon masses using $N_f = 2$ twisted mass clover-improved fermions directly at the physical pion mass*. *Phys. Rev. D* **96** 034511 (2017). [arXiv:1704.02647 \[hep-lat\]](#).
- E: Zheng, Xu-Chang and Chang, Chao-Hsi and Pan, Zan: *Production of doubly heavy-flavored hadrons at e^+e^- colliders*. *Phys. Rev. D* **93** 034019 (2016). [arXiv:1510.06808 \[hep-ph\]](#).
- E: Trunin, Anton: *bc diquark pair production in high energy proton-proton collisions*. *Phys. Rev. D* **93** 114029 (2016). [arXiv:1606.04148 \[hep-ph\]](#).
- E: Thakkar, Kaushal and Majethiya, Ajay and Vinodkumar, P. C.: *Magnetic moments of baryons containing all heavy quarks in the quark-diquark model*. *Eur. Phys. J. Plus* **131** 339 (2016). [arXiv:1609.05444 \[hep-ph\]](#).
- E: Sun, Zhi-Feng and Vicente Vacas, M. J.: *Masses of doubly charmed baryons in the extended on-mass-shell renormalization scheme*. *Phys. Rev. D* **93** 094002 (2016). [arXiv:1602.04714 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *Exotic hadrons: review and perspectives*. *Few Body Syst.* **57** 1185–1212 (2016). [arXiv:1606.08593 \[hep-ph\]](#).
- E: Puchkov, A. M. and Kozhedub, A. V.: *Two potential quark models for double heavy baryons*. *AIP Conf. Proc.* **1701** 100014 (2016).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E: Naik, Paras, LHCb Collaboration: *Charmed baryons at LHCb. VIII International Workshop On Charm Physics. Proceedings of Science CHARM2016 047* (2016). LHCb-PROC-2017-003, CERN-LHCb-PROC-2017-003.
- E: Ma, Yong-Liang and Harada, Masayasu: *Degeneracy of doubly heavy baryons from heavy quark symmetry*. *Phys. Lett. B* **754** 125–128 (2016). [arXiv:1510.07481 \[hep-ph\]](#).
- E: Kiselev, V. V. and Novoselov, A. A. and Tagiev, E. R.: *Production of quarkonia and doubly heavy baryons in pp -collisions with duality approach*. (2016). [arXiv:1612.00444 \[hep-ph\]](#).
- T: Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^{\pm}* . (2016). FERMILAB-MASTERS-2016-13 .
- T: Charles, Matthew: *Selected results on heavy flavour physics at LHCb*. (2016). tel-01340092.
- E: Andronic, A. and others: *Heavy-flavour and quarkonium production in the LHC era: from proton–proton to heavy-ion collisions*. *Eur. Phys. J. C* **76** 107 (2016). [arXiv:1506.03981 \[nucl-ex\]](#).
- E: Wei, Ke-Wei and Chen, Bing and Guo, Xin-Heng: *Masses of doubly and triply charmed baryons*. *Phys. Rev. D* **92** 076008 (2015). [arXiv:1503.05184 \[hep-ph\]](#).
- E: Sun, Zhi-Feng and Liu, Zhan-Wei and Liu, Xiang and Zhu, Shi-Lin: *Masses and axial currents of the doubly charmed baryons*. *Phys. Rev. D* **91** 094030 (2015). ADP-14-33-T892, [arXiv:1411.2117 \[hep-ph\]](#).
- E: Pérez-Rubio, Paula and Collins, Sara and Bali, Gunnar S.: *Charmed baryon spectroscopy and light flavor symmetry from lattice QCD*. *Phys. Rev. D* **92** 034504 (2015). [arXiv:1503.08440 \[hep-lat\]](#).
- E: Padmanath, M. and Edwards, Robert G. and Mathur, Nilmani and Peardon, Michael: *Spectroscopy of doubly-charmed baryons from lattice QCD*. *Phys. Rev. D* **91** 094502 (2015). TIFR-TH-15-06, JLAB-THY-15-2028, [arXiv:1502.01845 \[hep-lat\]](#).
- E: Padmanath, M. and Mathur, Nilmani: *Charmed baryons on the lattice*. (2015). [arXiv:1508.07168 \[hep-lat\]](#).
- T: Ogilvy, Stephen: *Branching ratios of charmed baryons in the LHCb experiment*. (2015).
- E: Ogilvy, Stephen: *Charmed baryons from LHCb*. (2015). [arXiv:1509.05611 \[hep-ex\]](#).
- E: Martynenko, A. P. and Trunin, A. M.: *Relativistic description of pair production of doubly heavy baryons in e^+e^- annihilation*. *Phys. Atom. Nucl.* **78** 404–407 (2015).
- E: Liu, Y. and Liu, L. -L. and Guo, X. -H.: *Study of $\Lambda_b \rightarrow \Lambda^{+}l^-$ and $\Lambda_b \rightarrow pl\bar{\nu}$ decays in the Bethe-Salpeter equation approach*. (2015). [arXiv:1503.06907 \[hep-ph\]](#).
- T: Duque, Carlos Hidalgo: *An Effective Field Theory study of heavy meson-heavy antimeson molecules based on Heavy Quark Symmetries*. (2015).

- E: Cheng, Hai-Yang: *Charmed Baryons Circa 2015*. (2015). [arXiv:1508.07233 \[hep-ph\]](#).
- E: Cheng, Hai-Yang: *Charmed baryons circa 2015*. *Front. Phys. (Beijing)* **10** 101406 (2015).
- E: Andreazza, A. and others: *What Next: White Paper of the INFN-CSN1*. (2015).
- E: Aliev, T. M. and Azizi, K. and Sundu, H.: *Radiative $\Omega_Q^* \rightarrow \Omega_Q \gamma$ and $\Xi_Q^* \rightarrow \Xi_Q \gamma$ transitions in light cone QCD*. *Eur. Phys. J. C* **75** 14 (2015). [arXiv:1409.7577 \[hep-ph\]](#).
- T: Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- E: Yang, Zhong-Juan and Zhao, Xiao-Xia: *The Production of Ξ_{bb} at Photon Collider*. *Chin. Phys. Lett.* **31** 091301 (2014). [arXiv:1408.5584 \[hep-ph\]](#).
- E: Yang, Zhong-Juan and Zhang, Pei-Feng and Zheng, Ya-Juan: *Doubly Heavy Baryon Production in e^+e^- Annihilation*. *Chin. Phys. Lett.* **31** 051301 (2014).
- E: Szumlak, Tomasz: *Meson spectroscopy at LHCb*. *EPJ Web Conf.* **81** 04012 (2014).
- E: Horsley, R. and Najjar, J. and Nakamura, Y. and Perlt, H. and Pleiter, D. and Rakow, P. E. L. and Schierholz, G. and Schiller, A. and Stüben, H. and Zanotti, J. M., QCDSF-UKQCD Collaboration: *SU(3) flavour symmetry breaking and charmed states*. *31st International Symposium on Lattice Field Theory LATTICE 2013. Proceedings of Science LATTICE2013* 249 (2014). ADP-13-23-T843, DESY-13-220, EDINBURGH-2013-30, LIVERPOOL-LTH-993, [arXiv:1311.5010 \[hep-lat\]](#).
- E: Polyakov, Ivan, LHCb Collaboration: *b and c hadron spectroscopy at LHCb*. (2014). [arXiv:1404.7613 \[hep-ex\]](#).
- E: Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- T: Padmanath, M.: *Baryons from lattice QCD*. (2014).
- E: Padmanath, M. and Edwards, Robert G. and Mathur, Nilmani and Peardon, Michael: *Spectroscopy of triply-charmed baryons from lattice QCD*. *Phys. Rev. D* **90** 074504 (2014). TIFR-TH-13-23, TCDMATH-13-10, JLAB-THY-13-1767, [arXiv:1307.7022 \[hep-lat\]](#).
- E: Oka, Makoto: *Spectroscopy of heavy quark hadrons*. *Int. J. Mod. Phys. E* **23** 1461007 (2014).
- E: Li, Ning and Sun, Zhi-Feng and Liu, Xing and Zhu, Shi-Lin: *Molecular states with two heavy quarks*. *Int. J. Mod. Phys. Conf. Ser.* **29** 1460218 (2014).
- E: Lesiak, Tadeusz, LHCb Collaboration: *Charm Production, Mixing and CP Violation*. *Acta Phys. Polon. B* **45** 1469 (2014).
- E: Koshkarev, Sergey: *Production properties of the Doubly Charmed Baryons at the large Feynman-X*. (2014). [arXiv:1406.4095 \[hep-ph\]](#).
- E: Koshkarev, Sergey: *On the production properties of the Doubly-Charmed Baryons*. (2014). [arXiv:1403.0264 \[hep-ph\]](#).
- E: Karliner, Marek: *Doubly Heavy Tetraquarks and Baryons*. *EPJ Web Conf.* **71** 00065 (2014). [arXiv:1401.4058 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Baryons with two heavy quarks: Masses, production, decays, and detection*. *Phys. Rev. D* **90** 094007 (2014). EFI-14-28, TAUP-2986-14, [arXiv:1408.5877 \[hep-ph\]](#).
- E: Joo, Changwoo, Belle Collaboration: *Recent results on the charmed hadron systems at Belle*. [doi:10.3204/DESY-PROC-2014-04/252](#) (2014).
- E: Jin, Yi and Li, Shi-Yuan and Liu, Yan-Rui and Si, Zong-Guo and Yao, Tao: *Search for a doubly charmed hadron at B factories*. *Phys. Rev. D* **89** 094006 (2014). [arXiv:1401.6652 \[hep-ph\]](#).
- E: Chen, Gu and Wu, Xing-Gang and Zhang, Jia-Wei and Han, Hua-Yong and Fu, Hai-Bing: *Hadronic production of Ξ_{cc} at a fixed-target experiment at the LHC*. *Phys. Rev. D* **89** 074020 (2014). [arXiv:1401.6269 \[hep-ph\]](#).
- E: Chen, Gu and Wu, Xing-Gang and Sun, Zhan and Ma, Yang and Fu, Hai-Bing: *Photoproduction of doubly heavy baryon at the ILC*. *JHEP* **12** 018 (2014). [arXiv:1408.4615 \[hep-ph\]](#).
- E: Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, K.: *Charmed Bottom Baryon Spectroscopy*. *31st International Symposium on Lattice Field Theory LATTICE 2013. Proceedings of Science LATTICE2013* 248 (2014).
- E: Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, Kostas: *Charmed bottom baryon spectroscopy from lattice QCD*. *Phys. Rev. D* **90** 094507 (2014). JLAB-THY-14-1950, [arXiv:1409.0497 \[hep-lat\]](#).
- E: Kato, Y. and others, Belle Collaboration: *Search for doubly charmed baryons and study of charmed strange baryons at Belle*. *Phys. Rev. D* **89** 052003 (2014). BELLE-PREPRINT-2013-29, KEK-PREPRINT-2013-57, [arXiv:1312.1026 \[hep-ex\]](#).
- E: Bevan, A. J. and others, BaBar, Belle Collaboration: *The Physics of the B Factories*. *Eur. Phys. J. C* **74** 3026 (2014). SLAC-PUB-15968, KEK-PREPRINT-2014-3, FERMILAB-PUB-14-262-T, [arXiv:1406.6311 \[hep-ex\]](#).
- E: Azizi, K. and Aliev, T. M. and Savci, M.: *Properties of doubly and triply heavy baryons*. *J. Phys. Conf. Ser.* **556** 012016 (2014).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Properties of triply heavy spin-3/2 baryons*. *J. Phys. G* **41** 065003 (2014). [arXiv:1404.2091 \[hep-ph\]](#).

- E: Alexandrou, C. and Drach, V. and Jansen, K. and Kallidonis, C. and Koutsou, G.: *Baryon spectrum with $N_f = 2 + 1 + 1$ twisted mass fermions*. *Phys. Rev. D* **90** 074501 (2014). DESY-14-096, [arXiv:1406.4310 \[hep-lat\]](#).
- E: Albertus, C. and Hernandez, E. and Nieves, J.: *Hyperfine mixing in $b \rightarrow c$ semileptonic and electromagnetic decays of doubly heavy bc baryons*. *Int. J. Mod. Phys. Conf. Ser.* **26** 1460107 (2014).
- E: Zhong, Liang, LHCb Collaboration: *b and c hadron production and spectroscopy at LHCb*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 069 (2013).
- E: Sarac, Y. and Azizi, K. and Sundu, H.: *Analysis of the semileptonic transition of heavy Ξ_Q baryon to Ξ baryon in Light Cone QCD Sum Rules*. *Nucl. Phys. B Proc. Suppl.* **245** 164–167 (2013).
- E: Pappagallo, Marco, LHCb Collaboration: *Production and spectroscopy of open-flavoured hadrons at hadron colliders*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 008 (2013).
- E: Namekawa, Y. and others, PACS-CS Collaboration: *Charmed baryons at the physical point in 2+1 flavor lattice QCD*. *Phys. Rev. D* **87** 094512 (2013). [arXiv:1301.4743 \[hep-lat\]](#).
- E: Oka, Makoto: *New Aspect of Hadron Spectroscopy*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 001 (2013).
- E: Ogilvy, Stephen, LHCb Collaboration: *Studies of charmed baryons at LHCb*. (2013). [arXiv:1312.1601 \[hep-ex\]](#).
- E: Lorce, C. and others: *Spin and diffractive physics with A Fixed-Target Experiment at the LHC (AFTER@LHC)*. *AIP Conf. Proc.* **1523** 149–152 (2013). SLAC-PUB-15300, [arXiv:1212.0425 \[hep-ex\]](#).
- E: Li, Ning and Sun, Zhi-Feng and Liu, Xiang and Zhu, Shi-Lin: *Coupled-channel analysis of the possible $D^{(*)}D^{(*)}, \bar{B}^{(*)}\bar{B}^{(*)}$ and $D^{(*)}\bar{B}^{(*)}$ molecular states*. *Phys. Rev. D* **88** 114008 (2013). [arXiv:1211.5007 \[hep-ph\]](#).
- E: Aaij, R and others, LHCb Collaboration: *Search for the doubly charmed baryon Ξ_{cc}^+* . *JHEP* **12** 090 (2013). CERN-PH-EP-2013-181, LHCb-PAPER-2013-049, [arXiv:1310.2538 \[hep-ex\]](#).
- E: Karliner, Marek and Nussinov, Shmuel: *The doubly heavies: $\bar{Q}Q\bar{q}q$ and $QQ\bar{q}q$ tetraquarks and QQq baryons*. *JHEP* **07** 153 (2013). [arXiv:1304.0345 \[hep-ph\]](#).
- E: Jiang, Jun and Wu, Xing-Gang and Wang, Shao-Ming and Zhang, Jia-Wei and Fang, Zhen-Yun: *A Further Study on the Doubly Heavy Baryon Production around the Z^0 Peak at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* **87** 054027 (2013). [arXiv:1302.0601 \[hep-ph\]](#).
- E: Guo, Feng-Kun and Hidalgo-Duque, Carlos and Nieves, Juan and Valderrama, Manuel Pavon: *Heavy-antiquark–diquark symmetry and heavy hadron molecules: Are there triply heavy pentaquarks?*. *Phys. Rev. D* **88** 054014 (2013). [arXiv:1305.4052 \[hep-ph\]](#).
- T: Day, Joseph P.: *Approaches to Non-Perturbative Problems in Hadron Physics*. (2013).
- E: Crede, V. and Roberts, W.: *Progress towards understanding baryon resonances*. *Rept. Prog. Phys.* **76** 076301 (2013). [arXiv:1302.7299 \[nucl-ex\]](#).
- E: Can, K. U. and Erkol, G. and Isildak, B. and Oka, M. and Takahashi, T. T.: *Electromagnetic properties of doubly charmed baryons in Lattice QCD*. *Phys. Lett. B* **726** 703–709 (2013). [arXiv:1306.0731 \[hep-lat\]](#).
- E: Brodsky, S. J. and Fleuret, F. and Hadjidakis, C. and Lansberg, J. P.: *Physics Opportunities of a Fixed-Target Experiment using the LHC Beams*. *Phys. Rept.* **522** 239–255 (2013). SLAC-PUB-14878, [arXiv:1202.6585 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Masses and Residues of the Triply Heavy Spin-1/2 Baryons*. *JHEP* **04** 042 (2013). [arXiv:1212.6065 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *The masses and residues of doubly heavy spin-3/2 baryons*. *J. Phys. G* **40** 065003 (2013). [arXiv:1208.1976 \[hep-ph\]](#).
- E: Alexandrou, Constantia: *Hadron Physics and Lattice QCD*. *AIP Conf. Proc.* **1560** 3–10 (2013). [arXiv:1208.5679 \[hep-lat\]](#).
- T: Albuquerque, Raphael M.: *Charmonium Exotic States*. [doi:10.11606/T.43.2012.tde-06062013-170356](#) (2013). [arXiv:1306.4671 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the doubly heavy baryons in the nuclear matter with the QCD sum rules*. *Eur. Phys. J. C* **72** 2099 (2012). [arXiv:1205.0605 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the Triply Heavy Baryon States with QCD Sum Rules*. *Commun. Theor. Phys.* **58** 723–731 (2012). [arXiv:1112.2274 \[hep-ph\]](#).
- E: Tang, Liang and Yuan, Xu-Hao and Qiao, Cong-Feng and Li, Xue-Qian: *Study of Doubly Heavy Baryon Spectrum via QCD Sum Rules*. *Commun. Theor. Phys.* **57** 435–444 (2012). [arXiv:1104.4934 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *An introduction to the quark model*. (2012). [arXiv:1205.4326 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *The Role of Flavor in Multi-quark Spectroscopy*. (2012). [arXiv:1212.4955 \[nucl-th\]](#).
- E: Perez Rubio, Paula: *Charmed Baryon Spectroscopy from lattice QCD for $N_f = 2 + 1$ flavours*. *Proceedings of Science ConfinementX* **141** (2012). [arXiv:1302.5774 \[hep-lat\]](#).
- E: Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E: Namekawa, Y., PACS-CS Collaboration: *Charmed baryon spectroscopy on the physical point in 2+1 flavor lattice QCD*. *The 30th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2012* **139** (2012). [arXiv:1212.0073 \[hep-lat\]](#).

- E: Jiang, Jun and Wu, Xing-Gang and Liao, Qi-Li and Zheng, Xu-Chang and Fang, Zhen-Yun: *Doubly Heavy Baryon Production at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* **86** 054021 (2012). [arXiv:1208.3051 \[hep-ph\]](#).
- E: Brown, Zachary S. and Detmold, William and Meinel, Stefan and Orginos, Kostas: *Charm-bottom baryon spectroscopy*. *Sixth International Conference on Quarks and Nuclear Physics*. *Proceedings of Science QNP2012* 107 (2012). JLAB-THY-12-1588.
- E: Briceno, Raul A. and Lin, Huey-Wen and Bolton, Daniel R.: *Charmed-Baryon Spectroscopy from Lattice QCD with $N_f = 2+1+1$ Flavors*. *Phys. Rev. D* **86** 094504 (2012). NT-UW-12-12, NT@UW-12-12, [arXiv:1207.3536 \[hep-lat\]](#).
- E: Azizi, K. and Bayar, M. and Ozpineci, A. and Sarac, Y. and Sundu, H.: *Semileptonic transition of Σ_b to Σ in Light Cone QCD Sum Rules*. *Phys. Rev. D* **85** 016002 (2012). [arXiv:1112.5147 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Doubly Heavy Spin-1/2 Baryon Spectrum in QCD*. *Nucl. Phys. A* **895** 59–70 (2012). [arXiv:1205.2873 \[hep-ph\]](#).
- E: Alexandrou, C. and Carbonell, J. and Christaras, D. and Drach, V. and Gravina, M. and Papinutto, M.: *Strange and charm baryon masses with two flavors of dynamical twisted mass fermions*. *Phys. Rev. D* **86** 114501 (2012). DESY-12-069, SFB-CPP-12-25, [arXiv:1205.6856 \[hep-lat\]](#).
- E: Zhang, Jia-Wei and Wu, Xing-Gang and Zhong, Tao and Yu, Yao and Fang, Zhen-Yun: *Hadronic Production of the Doubly Heavy Baryon Ξ_{bc} at LHC*. *Phys. Rev. D* **83** 034026 (2011). [arXiv:1101.1130 \[hep-ph\]](#).
- E: Weng, M. -H. and Guo, X. -H. and Thomas, A. W.: *Bethe-Salpeter equation for doubly heavy baryons in the covariant instantaneous approximation*. *Phys. Rev. D* **83** 056006 (2011). ADP-10-26-T722, [arXiv:1012.0082 \[hep-ph\]](#).
- E: Wang, Zhi-Gang and Xu, Yan-Mei and Wang, Hui-Juan: *Analysis of the scalar doubly heavy tetraquark states with QCD sum rules*. *Commun. Theor. Phys.* **55** 1049–1058 (2011). [arXiv:1004.0484 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $1/2^-$ and $3/2^-$ heavy and doubly heavy baryon states with QCD sum rules*. *Eur. Phys. J. A* **47** 81 (2011). [arXiv:1003.2838 \[hep-ph\]](#).
- E: Vairo, Antonio: *Effective field theories for baryons with two- and three-heavy quarks*. *Few Body Syst.* **49** 263–268 (2011). TUM-EFT-12-10, [arXiv:1008.4473 \[nucl-th\]](#).
- E: Richard, Jean-Marc: *Baryon spectroscopy and heavy quarks*. *Int. J. Mod. Phys. Conf. Ser.* **02** 168–172 (2011). [arXiv:1102.1329 \[hep-ph\]](#).
- E: Narison, Stephan and Albuquerque, Raphael: *Mass-splittings of doubly heavy baryons in QCD*. *Phys. Lett. B* **694** 217–225 (2011). [arXiv:1006.2091 \[hep-ph\]](#).
- T: Majethiya, Ajay A.: *Properties of heavy flavour baryons using quark models*. (2011). Ph.D. Thesis, Sardar Patel University.
- T: Liu, Liuming: *Charmed Hadron Spectrum and Interactions*. [doi:10.21220/s2-7per-0c68](#) (2011).
- E: Lin, Huey-Wen: *Review of Baryon Spectroscopy in Lattice QCD*. *Chin. J. Phys.* **49** 827 (2011). NT@UW-11-09, [arXiv:1106.1608 \[hep-lat\]](#).
- T: Jiménez Tejero, Clara Estela: *Charmed baryon resonances and mesons in hot and dense matter*. (2011).
- E: Guo, Xin-Heng: *Studies of heavy hadron physics*. *AIP Conf. Proc.* **1418** 170–177 (2011).
- E: Day, Joseph P. and Choi, Ki-Seok and Plessas, Willibald: *Spectroscopy of heavy baryons*. (2011).
- E: Davies, Christine: *Standard Model Heavy Flavor physics on the Lattice*. *XXIX International Symposium on Lattice Field Theory*. *Proceedings of Science LATTICE2011* 019 (2011). [arXiv:1203.3862 \[hep-lat\]](#).
- E: Brodsky, Stanley J. and Guo, Feng-Kun and Hanhart, Christoph and Meissner, Ulf-G.: *Isospin splittings of doubly heavy baryons*. *Phys. Lett. B* **698** 251–255 (2011). SLAC-PUB-14347, FZJ-IKP-TH-2011-01, [arXiv:1101.1983 \[hep-ph\]](#).
- E: Brodsky, Stanley J. and de Teramond, Guy F.: *Applications of AdS/QCD and Light-Front Holography to Baryon Physics*. *AIP Conf. Proc.* **1388** 22–33 (2011). SLAC-PUB-14381, [arXiv:1103.1186 \[hep-ph\]](#).
- E: Briceno, Raul A. and Bolton, Daniel and Lin, Huey-Wen: *Charmed Baryon Spectroscopy from Lattice QCD with $N_f = 2 + 1 + 1$ flavors*. *XXIX International Symposium on Lattice Field Theory*. *Proceedings of Science LATTICE2011* 116 (2011). [arXiv:1111.1028 \[hep-lat\]](#).
- E: Albertus, C. and Hernández, E. and Nieves, J.: *Exclusive $c \rightarrow s, d$ semileptonic decays of ground-state spin-1/2 doubly charmed baryons*. *Phys. Lett. B* **704** 499–509 (2011). [arXiv:1108.1296 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $\frac{3}{2}^+$ heavy and doubly heavy baryon states with QCD sum rules*. *Eur. Phys. J. C* **68** 459–472 (2010). [arXiv:1002.2471 \[hep-ph\]](#).
- E: Wang, Zhi-Gang: *Analysis of the $\frac{1}{2}^+$ doubly heavy baryon states with QCD sum rules*. *Eur. Phys. J. A* **45** 267–274 (2010). [arXiv:1001.4693 \[hep-ph\]](#).
- E: Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E: Liu, Liuming and Lin, Huey-Wen and Orginos, Kostas and Walker-Loud, Andre: *Singly and Doubly Charmed $J=1/2$ Baryon Spectrum from Lattice QCD*. *Phys. Rev. D* **81** 094505 (2010). JLAB-THY-09-1060, NT-UW-09-17, [arXiv:0909.3294 \[hep-lat\]](#).
- E: Klempt, Eberhard and Richard, Jean-Marc: *Baryon spectroscopy*. *Rev. Mod. Phys.* **82** 1095–1153 (2010). [arXiv:0901.2055 \[hep-ph\]](#).

- E: Branz, Tanja and Faessler, Amand and Gutsche, Thomas and Ivanov, Mikhail A. and Korner, Jurgen G. and Lyubovitskij, Valery E. and Oehl, Bettina: *Radiative decays of double heavy baryons in a relativistic constituent three-quark model including hyperfine mixing*. *Phys. Rev. D* **81** 114036 (2010). [arXiv:1005.1850 \[hep-ph\]](#).
- E: Azizi, K. and Bayar, M. and Sarac, Y. and Sundu, H.: *FCNC transitions of $\Lambda_{cb}(b,c)$ to nucleon in SM*. *J. Phys. G* **37** 115007 (2010).
- E: Azizi, K. and Bayar, M. and Zeyrek, M. T.: *Flavor Changing Natural Current Transition of the Sigma(Q) to Nucleon in Full QCD and Heavy Quark Effective Theory*. *J. Phys. G* **37** 085002 (2010). [arXiv:0910.4521 \[hep-ph\]](#).
- E: Aliev, T. M. and Azizi, K. and Savci, M.: *Analysis of the $\Lambda_b \rightarrow \Lambda \ell^+ \ell^-$ decay in QCD*. *Phys. Rev. D* **81** 056006 (2010). [arXiv:1001.0227 \[hep-ph\]](#).
- E: Albuquerque, R. M. and Narison, S.: *Doubly heavy Baryons from QCD Spectral Sum Rules*. *Nucl. Phys. B Proc. Suppl.* **207-208** 265–268 (2010). [arXiv:1009.2428 \[hep-ph\]](#).
- E: Albertus, C. and Hernandez, E. and Nieves, J.: *Hyperfine mixing in $b \rightarrow c$ semileptonic decay of doubly heavy baryons*. *Phys. Lett. B* **683** 21–25 (2010). [arXiv:0911.0889 \[hep-ph\]](#).
- E: Albertus, C. and Hernández, E. and Nieves, J.: *Role of hyperfine mixing in $b \rightarrow c$ semileptonic decays of doubly-heavy baryons*. *Chin. Phys. C* **34** 1488–1490 (2010). [arXiv:0911.1193 \[hep-ph\]](#).
- E: Adams, T. and others: *Renaissance of the ~ 1 TeV Fixed-Target Program*. *Int. J. Mod. Phys. A* **25** 777–813 (2010). SLAC-PUB-14823, FERMILAB-PUB-09-249-PPD, [arXiv:0905.3004 \[hep-ex\]](#).
- E: Zhang, Jian-Rong and Huang, Ming-Qiu: *Heavy flavor baryon spectra via QCD sum rules*. *Chin. Phys. C* **33** 1385–1388 (2009). [arXiv:0904.3391 \[hep-ph\]](#).
- T: Wasiluk, Joanna M.: *Selected features of chiral doubling for hadrons*. (2009).
- E: Vijande, J. and Valcarce, A. and Barnea, N.: *Exotic meson-meson molecules and compact four-quark states*. *Phys. Rev. D* **79** 074010 (2009). [arXiv:0903.2949 \[hep-ph\]](#).
- E: Sharma, Arvind and Verma, R. C.: *Axial-vector meson emitting weak nonleptonic decays of bottom baryons*. *Phys. Rev. D* **79** 094023 (2009).
- E: Sharma, Arvind and Verma, R. C.: *Scalar meson emitting weak hadronic decays of $1/2^+$ charm baryons involving factorization and pole contributions*. *J. Phys. G* **36** 075005 (2009).
- E: Sharma, Arvind and Verma, R. C.: *First estimate of axial-vector meson emitting weak nonleptonic decays of charm baryons based on the factorization scheme*. *Phys. Rev. D* **79** 037506 (2009).
- E: Patel, Bhavin and Majethiya, Ajay and Vinodkumar, P. C.: *Masses and Magnetic moments of Triply Heavy Flavour Baryons in Hypercentral Model*. *Pramana* **72** 679–688 (2009). [arXiv:0808.2880 \[hep-ph\]](#).
- E: Orginos, Konstantinos: *Charmed and Bottom Baryon Spectrum from Lattice QCD*. eCONF C0906083 01 (2009). JLAB-THY-09-988.
- E: Li, Xue-Qian and Liu, Xiang and Wei, Zheng-Tao: *Charm Physics: A Field Full with Challenges and Opportunities*. *Front. Phys. China* **4** 49–74 (2009). [arXiv:0808.2587 \[hep-ph\]](#).
- T: Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD*. (2009). AAT-3352220, PROQUEST-1700674431.
- E: Hu, Jie: *Chiral corrections to heavy quark-diquark symmetry predictions for doubly heavy baryon zero-recoil semileptonic decay*. (2009). [arXiv:0905.3506 \[hep-ph\]](#).
- T: Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD*. (2009). Ph.D. Thesis, Duke University.
- E: Giannuzzi, Floriana: *Heavy hadron spectroscopy in a Salpeter model with AdS/QCD inspired potential*. *European Physical Society Europhysics Conference on High Energy Physics. Proceedings of Science EPS-HEP2009* 059 (2009).
- E: Giannuzzi, Floriana: *Doubly heavy baryons in a quark model with AdS/QCD inspired potential*. *Nuovo Cim.* **32** 131–135 (2009). BARI-TH-613-09, [arXiv:0909.2525 \[hep-ph\]](#).
- E: Giannuzzi, Floriana: *Doubly heavy baryons in a Salpeter model with AdS/QCD inspired potential*. *Phys. Rev. D* **79** 094002 (2009). BARI-TH-605-09, [arXiv:0902.4624 \[hep-ph\]](#).
- T: Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. doi:10.2172/969509 (2009). FERMILAB-THESIS-2009-43 .
- E: Bernotas, Andrius and Simonis, Vytautas: *Heavy hadron spectroscopy and the bag model*. *Lith. J. Phys.* **49** 19–28 (2009). [arXiv:0808.1220 \[hep-ph\]](#).
- E: Azizi, K. and Bayar, M. and Sarac, Y. and Sundu, H.: *Semileptonic $\Lambda_{cb}(b,c)$ to Nucleon Transitions in Full QCD at Light Cone*. *Phys. Rev. D* **80** 096007 (2009). [arXiv:0908.1758 \[hep-ph\]](#).
- E: Azizi, K. and Bayar, M. and Ozpineci, A. and Sarac, Y.: *Tree Level Semileptonic Sigma(b) to Nucleon Decay in Light Cone QCD Sum Rules*. *Phys. Rev. D* **80** 036007 (2009). [arXiv:0907.4774 \[hep-ph\]](#).
- E: Asner, D. M. and others: *Charm Physics Bibliography*. *Int. J. Mod. Phys. A* **24S1** 685–705 (2009).
- E: Asner, D. M. and others: *Physics at BES-III*. *Int. J. Mod. Phys. A* **24** S1–794 (2009). IHEP-PHYSICS-REPORT-BES-III-2008-001, [arXiv:0809.1869 \[hep-ex\]](#).
- E: Zhang, Jian-Rong and Huang, Ming-Qiu: *Doubly heavy baryons in QCD sum rules*. *Phys. Rev. D* **78** 094007 (2008). [arXiv:0810.5396 \[hep-ph\]](#).

- E:** Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Lattice QCD study of the heavy-heavy-light quark potential*. *Phys. Rev. D* **78** 014513 (2008). [arXiv:0806.3554 \[hep-lat\]](#).
- E:** Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Heavy-heavy-light quark potential in two approaches*. *Prog. Theor. Phys. Suppl.* **174** 270–273 (2008). [arXiv:0805.4735 \[hep-ph\]](#).
- E:** Yamamoto, Arata and Suganuma, Hideo and Iida, Hideaki: *Heavy-heavy-light quark potential in SU(3) lattice QCD*. *Phys. Lett. B* **664** 129–132 (2008). [arXiv:0708.3610 \[hep-lat\]](#).
- E:** Yamamoto, Arata and Suganuma, Hideo: *Quark motional effects on the inter-quark potential in baryons*. *Phys. Rev. D* **77** 014036 (2008). [arXiv:0709.0171 \[hep-ph\]](#).
- T:** Weitzel, Q.: *Precision Meson Spectroscopy: Diffractive Production at COMPASS and Development of a GEM-based TPC for PANDA*. (2008). CERN-THESIS-2008-180.
- E:** Patel, Bhavin and Rai, Ajay Kumar and Vinodkumar, P. C.: *Heavy Flavour Baryons in Hyper Central Model*. *Pramana* **70** 797–804 (2008). [arXiv:0802.4408 \[hep-ph\]](#).
- E:** Patel, Bhavin and Rai, Ajay Kumar and Vinodkumar, P. C.: *Masses and magnetic moments of heavy flavour baryons in hyper central model*. *J. Phys. G* **35** 065001 (2008). [arXiv:0710.3828 \[hep-ph\]](#).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Martynenko, A. P.: *Ground-state triply and doubly heavy baryons in a relativistic three-quark model*. *Phys. Lett. B* **663** 317–321 (2008). SSU-HEP-07-8, [arXiv:0708.2033 \[hep-ph\]](#).
- E:** Majethiya, Ajay and Patel, Bhavin and Rai, Ajay Kumar and Vinodkumar, P. C.: *Properties of doubly charmed baryons in the quark-diquark model*. (2008). [arXiv:0809.4910 \[hep-ph\]](#).
- E:** Liu, Xiang and Ke, Hong-Wei and Qiao, Qing-Peng and Wei, Zheng-Tao and Li, Xue-Qian: *A Possibility of Search for New Physics at LHCb*. *Phys. Rev. D* **77** 035014 (2008). [arXiv:0710.2600 \[hep-ph\]](#).
- E:** Lee, Su Houng and Yasui, Shigehiro and Liu, Wei and Ko, Che Ming: *Charmed exotics in Heavy Ion Collisions*. *Eur. Phys. J. C* **54** 259–265 (2008). [arXiv:0707.1747 \[hep-ph\]](#).
- E:** Hwang, Chien-Wen and Chung, Ching-Ho: *Isospin mass splittings of heavy baryons in HQS*. *Phys. Rev. D* **78** 073013 (2008). [arXiv:0804.4044 \[hep-ph\]](#).
- T:** Hohler, Paul M.: *Phenomenological aspects of heavy quark systems*. (2008).
- E:** Guo, Xin-Heng and Wei, Ke-Wei and Wu, Xing-Hua: *Some mass relations for mesons and baryons in Regge phenomenology*. *Phys. Rev. D* **78** 056005 (2008). [arXiv:0809.1702 \[hep-ph\]](#).
- E:** Guo, Xin-Heng and Wei, Ke-Wei and Wu, Xing-Hua: *Strong decays of heavy baryons in Bethe-Salpeter formalism*. *Phys. Rev. D* **77** 036003 (2008). [arXiv:0710.1474 \[hep-ph\]](#).
- E:** Chang, Chao-Hsi and Li, Tong and Li, Xue-Qian and Wang, Yu-Ming: *Lifetime of doubly charmed baryons*. *Commun. Theor. Phys.* **49** 993–1000 (2008). [arXiv:0704.0016 \[hep-ph\]](#).
- E:** Yang, Zhong-Juan and Yao, Tao: *Doubly heavy baryon production at polarized photon collider*. *Chin. Phys. Lett.* **24** 3378–3380 (2007). SDU-HEP-200705, [arXiv:0710.0051 \[hep-ph\]](#).
- T:** Velasco, Jose Maria Verde: *Static and dynamic properties of hadronic systems with heavy quarks b and c*. (2007). [arXiv:0710.1790 \[hep-ph\]](#).
- E:** Vairo, Antonio: *Heavy quarkonium physics from effective field theories*. *Eur. Phys. J. A* **31** 728 (2007). IFUM-878-FT, [arXiv:hep-ph/0610251](#).
- E:** Sharma, Arvind and Verma, R.C.: *Exclusive weak hadronic decays of charmed baryons in flavor SU(3) reanalyzed*. *Indian Journal of Pure and Applied Physics* **4** 189–197 (2007).
- E:** Rosina, M.: *The signature of some promising dimeson decays*. *Nucl. Phys. A* **782** 378–382 (2007).
- E:** Petersen, Brian Aa., BaBar Collaboration: *Charm and Charmonium Spectroscopy*. *Nucl. Phys. B Proc. Suppl.* **167** 87–90 (2007). SLAC-PUB-12166, BABAR-PROC-06-036, [arXiv:hep-ex/0609030](#).
- E:** Pakhlova, Galina: *Charm physics at B factories*. [doi:10.3204/proc07-01/161](#) (2007).
- E:** Mehen, Thomas: *Heavy Quark-Diquark Symmetry and χ PT for Doubly Heavy Baryons*. [doi:10.1142/9789812790804%5F0045](#) (2007). Proceedings of the 5th International Workshop on Chiral Dynamics, Theory and Experiment, Durham/Chapel Hill, USA, 18 September 2006.
- T:** Marinescu, Diana Nicmorus: *Electromagnetic Properties of Light and Heavy Baryons in the Relativistic Quark Model*. (2007). Ph.D. Thesis, Universität Tübingen.
- T:** Majewski, Stephanie A.: *Study of B-Meson Decays to Final States with a Single Charm Baryon*. [doi:10.2172/953857](#) (2007). SLAC-R-923.
- E:** Liventsev, D.: *QCD results from Belle*. *Nucl. Phys. B Proc. Suppl.* **174** 134–137 (2007).
- E:** Li, Shi-Yuan and Si, Zong-Guo and Yang, Zhong-Juan: *Doubly heavy baryon production at gamma gamma collider*. *Phys. Lett. B* **648** 284–288 (2007). SDU-HEP200701, [arXiv:hep-ph/0701212](#).
- E:** Lesiak, T.: *Charmed baryon spectroscopy with Belle*. *AIP Conf. Proc.* **892** 330–333 (2007).
- E:** Kreps, Michal, BaBar, Belle, CDF Collaboration: *New heavy quark baryons*. eConf C070512 019 (2007). FERMILAB-CONF-07-412-E, FPCP07-231, FPCP-2007-019, [arXiv:0706.2938 \[hep-ex\]](#).
- E:** Korpar, S., Belle Collaboration: *New resonances and spectroscopy*. *Int. J. Mod. Phys. A* **22** 447–454 (2007).

- T:** Frömel, Frank: *Short-range correlations in quark and nuclear matter*. (2007).
- T:** Edwards, Adam J.: *A Study of Double-Charm and Charm-Strange Baryons in Electron-Positron Annihilations*. (2007). SLAC-R-883.
- E:** Chang, Chao-Hsi and Wang, Jian-Xiong and Wu, Xing-Gang: *GENXICC: A Generator for hadronic production of the double heavy baryons $\Xi(cc)$, $\Xi(bc)$ and $\Xi(bb)$* . *Comput. Phys. Commun.* **177** 467–478 (2007). [arXiv:hep-ph/0702054](#).
- E:** Chang, Chao-Hsi and Ma, Jian-Ping and Qiao, Cong-Feng and Wu, Xing-Gang: *Hadronic production of the doubly charmed baryon $\Xi(cc)$ with intrinsic charm*. *J. Phys. G* **34** 845 (2007). [arXiv:hep-ph/0610205](#).
- E:** Buccella, Franco and Hogaasen, Hallstein and Richard, Jean-Marc and Sorba, Paul: *Chromomagnetism, flavour symmetry breaking and S-wave tetraquarks*. *Eur. Phys. J. C* **49** 743–754 (2007). DSF-13-2006, LAPTH-1150-06, LPSC-06-37, [arXiv:hep-ph/0608001](#).
- E:** Band, H. R., BaBar, Belle Collaboration: *Hadronic charm decays from B factories*. *Nucl. Phys. B Proc. Suppl.* **170** 232–236 (2007). SLAC-PUB-12987.
- E:** Albertus, C. and Hernandez, E. and Nieves, J. and Verde-Velasco, J. M.: *Masses and semileptonic decays of doubly heavy baryons in a nonrelativistic quark model*. (2007). [arXiv:0707.4560 \[nucl-th\]](#).
- E:** Albertus, C. and Hernandez, E. and Nieves, J. and Verde-Velasco, J. M.: *Static properties and semileptonic decays of doubly heavy baryons in a nonrelativistic quark model*. *Eur. Phys. J. A* **32** 183–199 (2007). [Erratum: *Eur.Phys.J.A* **36**, 119 (2008)], [arXiv:hep-ph/0610030](#).
- E:** Albertus, C. and Hernandez, E. and Nieves, J. and Verde-Velasco, J. M.: *Doubly heavy quark baryon spectroscopy and semileptonic decay*. *Eur. Phys. J. A* **31** 691–694 (2007). [arXiv:hep-ph/0610131](#).
- E:** Vijande, J. and Garcilazo, H. and Valcarce, A. and Fernandez, F.: *Spectroscopy of doubly charmed baryons*. *AIP Conf. Proc.* **814** 284–288 (2006).
- E:** Vairo, Antonio: *Heavy Hadron Spectroscopy*. *Conf. Proc. C* **060726** 71–80 (2006). IFUM-879-FT, [arXiv:hep-ph/0611310](#).
- E:** Tsuboyama, T.: *Recent results on charmed baryons with Belle*. *AIP Conf. Proc.* **870** 376–379 (2006).
- E:** Scadron, M. D. and Delbourgo, Robert and Rupp, G.: *Constituent quark masses and the electroweak standard model*. *J. Phys. G* **32** 735–745 (2006). [arXiv:hep-ph/0603196](#).
- E:** Rosner, Jonathan L.: *Hadron spectroscopy: A 2005 snapshot*. *AIP Conf. Proc.* **815** 218–232 (2006). EFI-05-10, [arXiv:hep-ph/0508155](#).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E:** Pakhlov, P. N.: *Charm and charmonium: Spectroscopy, production and decays*. *Conf. Proc. C* **060726** 13–22 (2006).
- E:** Migura, Sascha and Merten, Dirk and Metsch, Bernard and Petry, Herbert-R.: *Charmed baryons in a relativistic quark model*. *Eur. Phys. J. A* **28** 41 (2006). HISKP-TH-06-03, [arXiv:hep-ph/0602153](#).
- E:** Mehen, Thomas and Tiburzi, Brian C.: *Doubly heavy baryons and quark-diquark symmetry in quenched and partially quenched chiral perturbation theory*. *Phys. Rev. D* **74** 054505 (2006). JLAB-THY-06-531, [arXiv:hep-lat/0607023](#).
- E:** Meadows, Brian T.: *Charm decays at B factories*. *Int. J. Mod. Phys. A* **21** 5436–5444 (2006).
- E:** Marsiske, Helmut: *Charm and charmonium spectroscopy at the $e^+ e^-$ B-factories*. eConf C060409 012 (2006). SLAC-PUB-11876, FPCP06-211, FPCP-2006-012, [arXiv:hep-ex/0605117](#).
- E:** Lesiak, Tadeusz, Belle Collaboration: *Charmed baryon spectroscopy with Belle*. (2006). [arXiv:hep-ex/0605047](#).
- E:** Lesiak, Tadeusz: *New charm resonances*. eConf C0610161 001 (2006). HQL-2006-001, [arXiv:hep-ex/0612042](#).
- E:** Hu, Jie and Mehen, Thomas: *Chiral Lagrangian with heavy quark-diquark symmetry*. *Phys. Rev. D* **73** 054003 (2006). JLAB-THY-05-452, [arXiv:hep-ph/0511321](#).
- E:** Hofmann, J. and Lutz, M. F. M.: *D-wave baryon resonances with charm from coupled-channel dynamics*. *Nucl. Phys. A* **776** 17–51 (2006). [arXiv:hep-ph/0601249](#).
- E:** Han, Wei and Li, Shi-Yuan and Si, Zong-Guo and Yang, Zhong-Juan: *Colour connection and diquark fragmentation in $e^+ e^- \rightarrow q(1) \text{ anti-}q(1) q(2) \text{ anti-}q(2) \rightarrow h\text{-prime } s$ process*. *Phys. Lett. B* **642** 62–67 (2006). SDU-HEP200601, [arXiv:hep-ph/0601195](#).
- T:** Grube, B.: *A trigger control system for COMPASS and a measurement of the transverse polarization of Λ and Ξ hyperons from quasi-real photo-production*. (2006). CERN-THESIS-2006-114.
- E:** Gomshi Nobary, M. A. and Sepahvand, R.: *An Investigation of triply heavy baryon production at hadron colliders*. *Nucl. Phys. B* **741** 34–41 (2006). RAZI-HEP-124, [arXiv:hep-ph/0508115](#).
- E:** Fleming, Sean and Mehen, Thomas: *Doubly heavy baryons, heavy quark-diquark symmetry and NRQCD*. *Phys. Rev. D* **73** 034502 (2006). JLAB-THY-05-415, [arXiv:hep-ph/0509313](#).
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. doi:10.2172/1155869 (2006). FERMILAB-THESIS-2006-91 .

- A: Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons*. eConf C0610161 003 (2006). FERMILAB-CONF-07-029-E, HQL-2006-003, UASLP-IF-07-001, FERMILAB-Conf-07/029-E, [arXiv:hep-ex/0702001](#).
- E: Colangelo, P. and De Fazio, F. and Ozpineci, A.: *Radiative decays of excited charm mesons: A light-cone QCD sum rule analysis*. *AIP Conf. Proc.* **806** 217–223 (2006).
- E: Cohen, Thomas D. and Hohler, Paul M.: *Doubly heavy hadrons and the domain of validity of doubly heavy diquark-anti-quark symmetry*. *Phys. Rev. D* **74** 094003 (2006). DOE-ER-40762-363, [arXiv:hep-ph/0606084](#).
- E: Chang, Chao-Hsi and Qiao, Cong-Feng and Wang, Jian-Xiong and Wu, Xing-Gang: *Estimate of the hadronic production of the doubly charmed baryon $\Xi(cc)$ under GM-VFN scheme*. *Phys. Rev. D* **73** 094022 (2006). [arXiv:hep-ph/0601032](#).
- E: Brambilla, Nora: *NRQCD and Quarkonia*. eConf C0610161 004 (2006). HQL-2006-004, [arXiv:hep-ph/0702105](#).
- E: Bracko, M., Belle Collaboration: *New resonances and spectroscopy at Belle*. (2006).
- E: Bicudo, P.: *Prediction of the masses and decay processes of strange, charmed and bottomed pentaquarks from the linear molecular crypto-heptaquark model*. *J. Phys. G* **32** 787–798 (2006). [arXiv:hep-ph/0405086](#).
- E: Chistov, R. and others, Belle Collaboration: *Observation of new states decaying into $\Lambda b(c)+ K- \pi+$ and $\Lambda b(c)+ K0(S) \pi-$* . *Phys. Rev. Lett.* **97** 162001 (2006). [arXiv:hep-ex/0606051](#).
- E: Aubert, Bernard and others, BaBar Collaboration: *Search for doubly charmed baryons $\Xi(cc)+$ and $\Xi(cc)++$ in BABAR*. *Phys. Rev. D* **74** 011103 (2006). SLAC-PUB-11866, BABAR-PUB-06-031, [arXiv:hep-ex/0605075](#).
- E: Soto, J.: *Heavy quarks*. *AIP Conf. Proc.* **756** 204–209 (2005).
- E: Sharma, Arvind and Verma, R. C.: *Weak nonleptonic decays of charm baryons emitting scalar mesons*. *Phys. Rev. D* **71** 074024 (2005).
- A: Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^-* . *Phys. Lett. B* **628** 18–24 (2005). FERMILAB-PUB-04-082-E, [arXiv:hep-ex/0406033](#).
- A: Russ, J. S.: *New results on heavy flavor baryons*. *Nucl. Phys. A* **755** 180–187 (2005).
- E: Richard, J. -M. and Stancu, Fl.: *Double charm hadrons revisited*. Bled Workshops Phys. **6** 25–31 (2005). [arXiv:hep-ph/0511043](#).
- E: Quigg, Chris: *Theoretical overview: The New mesons*. *J. Phys. Conf. Ser.* **9** 1–10 (2005). FERMILAB-CONF-04-317-T, [arXiv:hep-ph/0411058](#).
- E: Mehen, Thomas: *Excited $D(s)$ (and pentaquarks) in chiral perturbation theory*. *Acta Phys. Polon. B* **36** 2341–2350 (2005). JLAB-THY-05-328, [arXiv:hep-ph/0506219](#).
- E: Kostyuk, A. P.: *Double, triple and hidden charm production in the statistical coalescence model*. (2005). [arXiv:nucl-th/0502005](#).
- E: Julia-Diaz, B. and Riska, D. O.: *Nuclei of double charm hyperons*. *Nucl. Phys. A* **755** 431–434 (2005). [arXiv:nucl-th/0405061](#).
- E: Hou, Wei-Shu and Nagashima, Makiko and Soddu, Andrea: *Baryon number violation involving higher generations*. *Phys. Rev. D* **72** 095001 (2005). SLAC-PUB-11461, [arXiv:hep-ph/0509006](#).
- E: Hofmann, J. and Lutz, M. F. M.: *Coupled-channel study of crypto-exotic baryons with charm*. *Nucl. Phys. A* **763** 90–139 (2005). [arXiv:hep-ph/0507071](#).
- E: Froemel, F. and Julia-Diaz, B. and Riska, D. O.: *Bound states of double flavor hyperons*. *Nucl. Phys. A* **750** 337–356 (2005). [arXiv:nucl-th/0410034](#).
- A: Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons*. *AIP Conf. Proc.* **756** 192–194 (2005).
- A: Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons*. *Nucl. Phys. A* **752** 121–128 (2005).
- E: Del Fabbro, A. and Janc, D. and Rosina, M. and Treleani, D.: *Production and detection of doubly charmed tetraquarks*. *Phys. Rev. D* **71** 014008 (2005). [arXiv:hep-ph/0408258](#).
- E: Chiu, Ting-Wai and Hsieh, Tung-Han: *Baryon masses in lattice QCD with exact chiral symmetry*. *Nucl. Phys. A* **755** 471–474 (2005). [arXiv:hep-lat/0501021](#).
- E: Chang, Chao-Hsi and Qiao, Cong-Feng and Wang, Jian-Xiong and Wu, Xing-Gang: *Hadronic production of $B_c(B_c^*)$ meson induced by the heavy quarks inside the collision hadrons*. *Phys. Rev. D* **72** 114009 (2005). [arXiv:hep-ph/0509040](#).
- E: Brodsky, Stanley J.: *New results in light-front phenomenology*. *Few Body Syst.* **36** 35–52 (2005). SLAC-PUB-10812, [arXiv:hep-ph/0411056](#).
- E: Brambilla, Nora and Vairo, Antonio and Rosch, Thomas: *Effective field theory Lagrangians for baryons with two and three heavy quarks*. *Phys. Rev. D* **72** 034021 (2005). IFUM-808-FT, [arXiv:hep-ph/0506065](#).
- E: Brambilla, N.: *Effective Field Theories for $Q Q Q$ and $Q Q q$ baryons*. *AIP Conf. Proc.* **756** 366–368 (2005).
- E: Brambilla, Nora and Pineda, Antonio and Soto, Joan and Vairo, Antonio: *Effective Field Theories for Heavy Quarkonium*. *Rev. Mod. Phys.* **77** 1423 (2005). IFUM-805-FT, UB-ECM-PF-04-24, [arXiv:hep-ph/0410047](#).
- E: Bicudo, P.: *The Pentaquarks in the linear molecular heptaquark model*. *Int. J. Mod. Phys. A* **20** 4593–4598 (2005). [arXiv:hep-ph/0410059](#).

- E:** Basak, S. and Edwards, R. G. and Fleming, G. T. and Heller, U. M. and Morningstar, C. and Richards, D. and Sato, I. and Wallace, S.: *Group-theoretical construction of extended baryon operators in lattice QCD*. *Phys. Rev. D* **72** 094506 (2005). JLAB-THY-05-376, [arXiv:hep-lat/0506029](#).
- T:** Wiesmann, Michael: *A Silicon Microstrip Detector for COMPASS and A First Measurement of the Transverse Polarization of Lambda-Hyperons from Quasi-Real Photo-Production*. (2004). Ph.D. Thesis, Technische Universität München.
- E:** Vijande, J. and Garcilazo, H. and Valcarce, A. and Fernandez, F.: *Spectroscopy of doubly charmed baryons*. *Phys. Rev. D* **70** 054022 (2004). [arXiv:hep-ph/0408274](#).
- E:** Vijande, J. and Fernandez, F. and Valcarce, A. and Silvestre-Brac, B.: *Tetraquarks in a chiral constituent quark model*. *Eur. Phys. J. A* **19** 383 (2004). [arXiv:hep-ph/0310007](#).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- A:** Russ, J. S.: *Recent hadron physics results from Fermilab*. *AIP Conf. Proc.* **717** 507–514 (2004).
- E:** Rosina, Mitja and Janc, Damijan: *New ideas about the production and detection of cc tetraquarks*. Bled Workshops in Physics **5** 74–76 (2004).
- E:** Rosina, Mitja and Janc, Damijan: *Double heavy baryons and dimesons*. *Eur. Phys. J. A* **19** 43–45 (2004). [arXiv:hep-ph/0311051](#).
- E:** Riska, D. O.: *The physics of the newly discovered hadrons*. *AIP Conf. Proc.* **717** 365–371 (2004).
- E:** Riska, D.O.: *The Double-Charm Hyperons and Their Interactions*. Bled Workshops in Physics **5** 58–61 (2004).
- E:** Brambilla, N. and others, Quarkonium Working Group Collaboration: *Heavy Quarkonium Physics*. doi:10.5170/CERN-2005-005 (2004). CERN-2005-005, CERN-2005-005, [arXiv:hep-ph/0412158](#).
- E:** Paul, S.: *Physics with charmed hadrons*. (2004).
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).
- E:** Narodetsky, I. M. and Trusov, M. A.: *Spectroscopy of baryons containing two heavy quarks*. *Lect. Notes Phys.* **647** 264–274 (2004).
- E:** Narodetskii, I. M. and Trusov, M. A.: *Ground state baryons in nonperturbative quark dynamics*. *Phys. Atom. Nucl.* **67** 762–772 (2004). [arXiv:hep-ph/0307131](#).
- E:** Kronfeld, Andreas S.: *Heavy Quarks and Lattice QCD*. *Nucl. Phys. B Proc. Suppl.* **129** 46–59 (2004). FERMILAB-CONF-03-366-T, [arXiv:hep-lat/0310063](#).
- A:** Jun, Soon Yung, SELEX Collaboration: *New particle observations in SELEX*. (2004). FERMILAB-CONF-04-450-E.
- E:** Julia-Diaz, B. and Riska, D. O.: *Baryon magnetic moments in relativistic quark models*. *Nucl. Phys. A* **739** 69–88 (2004). [arXiv:hep-ph/0401096](#).
- E:** Janc, D. and Rosina, M.: *The $T_{cc} = DD^*$ molecular state*. *Few Body Syst.* **35** 175–196 (2004). [arXiv:hep-ph/0405208](#).
- E:** He, Da-Heng and Qian, Ke and Ding, Yi-Bing and Li, Xue-Qian and Shen, Peng-Nian: *Evaluation of spectra of baryons containing two heavy quarks in bag model*. *Phys. Rev. D* **70** 094004 (2004). [arXiv:hep-ph/0403301](#).
- E:** Gottschalk, Erik Edward: *Beauty and charm production at fixed - target experiments*. *Acta Phys. Polon. B* **35** 85–90 (2004). FERMILAB-CONF-03-375-E.
- A:** Engelfried, Jurgen: *Review of recent results in charm physics*. *AIP Conf. Proc.* **722** 79–81 (2004). UASLP-IF-03-008, [arXiv:hep-ex/0312038](#).
- E:** Ebert, D. and Faustov, R. N. and Galkin, V. O. and Martynenko, A. P.: *Masses and weak decay rates of doubly heavy baryons*. (2004). [arXiv:hep-ph/0411082](#).
- E:** Ebert, D. and Faustov, R. N. and Galkin, V. O. and Martynenko, A. P.: *Semileptonic decays of doubly heavy baryons in the relativistic quark model*. *Phys. Rev. D* **70** 014018 (2004). [Erratum: *Phys.Rev.D* **77**, 079903 (2008)]HU-EP-04-24, [arXiv:hep-ph/0404280](#).
- E:** de Miranda, J. M.: *Lessons from standard charm decays*. *Int. J. Mod. Phys. A* **19** 1046–1060 (2004).
- E:** Colangelo, P. and De Fazio, F. and Ferrandes, R.: *Excited charmed mesons: Observations, analyses and puzzles*. *Mod. Phys. Lett. A* **19** 2083–2102 (2004). BARI-TH-04-486, [arXiv:hep-ph/0407137](#).
- E:** Cho, K, FOCUS Collaboration: *Charm Results from FOCUS*. (2004). Proceedings *Flavor Physics and CP Violation (FPCP2004)*, Daegu, Korea, 4–9 Oct 2004.
- E:** Cassel, D. G.: *Heavy quark summary*. *AIP Conf. Proc.* **717** 937–958 (2004).
- E:** Bicudo, P.: *Exotic pentaquarks, crypto-heptaquarks and linear three-hadronic molecules*. doi:10.1142/9789812701855%5F0056 (2004). [arXiv:hep-ph/0410097](#).
- E:** Baranov, S. P. and Slad, V. L.: *Production of triply charmed Omega(ccc) baryons in $e^+ e^-$ annihilation*. *Phys. Atom. Nucl.* **67** 808–814 (2004). [arXiv:hep-ph/0603090](#).
- E:** Soto, Joan: *Heavy quarks: Effective theories, lattice and models*. (2003). UB-ECM-PF-03-02, [arXiv:hep-ph/0301138](#).

- E: Sheldon, P. D.: *Charm and beauty spectroscopy*. Frascati Phys. Ser. 31 79–87 (2003).
- A: Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons*. Czech. J. Phys. 53 B201–B213 (2003). FERMILAB-CONF-02-380-E, [arXiv:hep-ex/0212029](#).
- E: Schmitt, L. and Paul, S. and Kuhn, R. and Moinester, M. A.: *Doubly charmed baryons in COMPASS*. (2003). [arXiv:hep-ex/0310049](#).
- E: Schmitt, Lars, COMPAS Collaboration: *Hadron Production in COMPASS*. *AIP Conf.Proc.* 717 870-874 (2003).
- A: Russ, J. S., SELEX Collaboration: *First Observation of a Family of Double Charm Baryons*. Frascati Phys. Ser. 31 25–28 (2003). FERMILAB-CONF-02-236-E, [arXiv:hep-ex/0209075](#).
- E: Rosner, Jonathan L.: *Conference summary*. *Nucl. Phys. B Proc. Suppl.* 115 385–397 (2003). EFI-02-57, [arXiv:hep-ph/0208243](#).
- E: Rosina, M. and Janc, D.: *Is the $cc\bar{u}\bar{d}$ tetraquark bound?*. Bled Workshops Phys. 4 103–106 (2003).
- E: Rosina, Mitja and Janc, Damijan and Treleani, Daniele and Del Fabbro, Aalessio: *The Production and decay of heavy dimesons*. *AIP Conf. Proc.* 660 377–382 (2003). [arXiv:hep-ph/0301136](#).
- E: Rosina, M. and Janc, D.: *Is the $cc\bar{u}\bar{d}$ tetraquark bound?*. Bled Workshops in Physics 4 103-106 (2003).
- E: Ratti, S. P.: *New results on c -baryons and a search for cc -baryons in FOCUS*. *Nucl. Phys. B Proc. Suppl.* 115 33–36 (2003).
- E: Narodetskii, I. M. and Trusov, M. A.: *The Doubly heavy baryons*. *Nucl. Phys. B Proc. Suppl.* 115 20–23 (2003). [arXiv:hep-ph/0209044](#).
- E: Narodetskii, I. M. and Plekhanov, A. N. and Veselov, A. I.: *Spectroscopy of baryons containing two heavy quarks in nonperturbative quark dynamics*. *JETP Lett.* 77 58–62 (2003). [arXiv:hep-ph/0212358](#).
- A: Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* 670 395–398 (2003).
- E: Ma, J. P. and Si, Z. G.: *Factorization approach for inclusive production of doubly heavy baryon*. *Phys. Lett. B* 568 135–145 (2003). AS-ITP-2003-010, [arXiv:hep-ph/0305079](#).
- E: Lyubovitskij, Valery E. and Faessler, A. and Gutsche, T. and Ivanov, M. A. and Korner, J. G.: *Heavy baryons in the relativistic quark model*. *Prog. Part. Nucl. Phys.* 50 329–339 (2003).
- E: Flynn, J. M. and Mescia, F. and Tariq, Abdullah Shams Bin, UKQCD Collaboration: *Spectroscopy of doubly charmed baryons in lattice QCD*. *JHEP* 07 066 (2003). SHEP-0319, [arXiv:hep-lat/0307025](#).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* 502 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- E: Egolf, David A. and Springer, Roxanne P. and Urban, Joerg: *SU(3) predictions for weak decays of doubly heavy baryons including SU(3) breaking terms*. *Phys. Rev. D* 68 013003 (2003). TUM-T39-02-21, PSI-PR-02-18, [arXiv:hep-ph/0211360](#).
- A: Cooper, Peter S.: *Heavy Baryons - Recent and Very New Results*. *Nucl. Phys. B Proc. Suppl.* 115 29–32 (2003). FERMILAB-CONF-02-350-E.
- E: Bianco, S. and Fabbri, F. L. and Benson, D. and Bigi, I.: *A Cicerone for the physics of charm*. *Riv. Nuovo Cim.* 26 1–200 (2003). LNF-09-P, UND-HEP-03-BIG06, LNF-09(P), UND-HEP-03-BIG, [arXiv:hep-ex/0309021](#).
- E: Bardeen, William A. and Eichten, Estia J. and Hill, Christopher T.: *Chiral Multiplets of Heavy - Light Mesons*. *Phys. Rev. D* 68 054024 (2003). FERMILAB-PUB-03-071-T, [arXiv:hep-ph/0305049](#).
- E: Rosina, M. and Janc, D. and Treleani, D. and Del Fabbro, A.: *Production and detection of $b\bar{b}\bar{u}\bar{d}$ tetraquarks at LHC?*. Bled Workshops in Physics 3 63-66 (2002).
- E: Richard, Jean-Marc: *Double charm physics*. (2002). [arXiv:hep-ph/0212224](#).
- T: Nahle, Ole Jens: *Faserhodoskope im COMPASS-Experiment zum Nachweis von Teilchenspuren innerhalb des Primärstrahls*. (2002). CERN-THESIS-2002-091.
- E: Martinez, A. and Torres, J. J. and Garcia, A. and Flores-Mendieta, Ruben: *Radiative corrections to all charge assignments of heavy quark baryon semileptonic decays*. *Phys. Rev. D* 66 074014 (2002). [arXiv:hep-ph/0207011](#).
- E: Kiselev, V. V. and Likhoded, A. K.: *Comment on ‘First observation of doubly charmed baryon $\Xi(cc)^+$ ’*. (2002). [arXiv:hep-ph/0208231](#).
35. Garcia, F. G. and others, SELEX Collaboration: *Hadronic Production of Λ_c from 600-GeV/c π^- , Σ^- and p Beams*. *Phys. Lett. B* 528 49–57 (2002). [arXiv:hep-ex/0109017](#).

80 Citations:

- E: Altmann, J. and Dubla, A. and Greco, V. and Rossi, A. and Skands, P.: *Towards the understanding of heavy quarks hadronization: from leptonic to heavy-ion collisions*. *Eur. Phys. J. C* 85 16 (2025). [arXiv:2405.19137 \[hep-ph\]](#).
- E: Ostapchenko, Sergey and Garzelli, Maria Vittoria and Sigl, Günter: *On the prompt contribution to the atmospheric neutrino flux*. *Phys. Rev. D* 107 023014 (2023). [arXiv:2208.12185 \[hep-ph\]](#).

- E:** Beraudo, Andrea and De Pace, Arturo and Monteno, Marco and Nardi, Marzia and Prino, Francesco: *In-medium hadronization of heavy quarks and its effect on charmed meson and baryon distributions in heavy-ion collisions.* *Eur. Phys. J. C* **82** 607 (2022). [arXiv:2202.08732 \[hep-ph\]](#).
- E:** Hadjidakis, C. and others: *A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies.* *Phys. Rept.* **911** 1–83 (2021). IFJPAN-IV-2018-11, JLAB-THY-18-2756, SLAC-PUB-17291, CERN-PBC-Notes-2021-023, [arXiv:1807.00603 \[hep-ex\]](#).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons.* (2020).
- E:** Bednyakov, V. A. and Khramov, E. V.: *JINR Participation in the Physics Program of the ATLAS Experiment in 2015–2019 Period.* *Phys. Part. Nucl.* **51** 123–140 (2020).
- E:** Maciula, Rafal and Szczurek, Antoni: *Enhanced production of Λ_c in proton-proton collisions at the LHC. XXVII International Workshop on Deep-Inelastic Scattering and Related Subjects. Proceedings of Science DIS2019 158* (2019). [arXiv:1908.07432 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD.* *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- E:** Fedynitch, Anatoli and Riehn, Felix and Engel, Ralph and Gaisser, Thomas K. and Stanev, Todor: *Hadronic interaction model sibyll 2.3c and inclusive lepton fluxes.* *Phys. Rev. D* **100** 103018 (2019). DESY-18-110, [arXiv:1806.04140 \[hep-ph\]](#).
- E:** Bednyakov, V. A. and Brodsky, S. J. and Lipatov, A. V. and Lykasov, G. I. and Malyshev, M. A. and Smiesko, J. and Tokar, S.: *Constraints on the intrinsic charm content of the proton from recent ATLAS data.* *Eur. Phys. J. C* **79** 92 (2019). DESY-18-055, SLAC-PUB-17198, [arXiv:1712.09096 \[hep-ph\]](#).
- E:** Bai, Weidong and Reno, Mary Hall: *Prompt neutrinos and intrinsic charm at SHiP.* *JHEP* **02** 077 (2019). [arXiv:1807.02746 \[hep-ph\]](#).
- E:** Abdolmaleki, H. and Khorramian, A.: *Parton distribution functions and constraints on the intrinsic charm content of the proton using the Brodsky-Hoyer-Peterson-Saka approach.* *Phys. Rev. D* **99** 116019 (2019). [arXiv:1903.02583 \[hep-ph\]](#).
- E:** Maciula, Rafal and Szczurek, Antoni: *Production of Λ_c baryons at the LHC within the k_T -factorization approach and independent parton fragmentation picture.* *Phys. Rev. D* **98** 014016 (2018). [arXiv:1803.05807 \[hep-ph\]](#).
- E:** Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD.* *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- T:** Bai, Weidong: *Charm production and prompt neutrino fluxes in beam dump and collider experiments.* (2018).
- E:** Acharya, Shreyasi and others, ALICE Collaboration: *Λ_c^+ production in pp collisions at $\sqrt{s} = 7$ TeV and in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV.* *JHEP* **04** 108 (2018). CERN-EP-2017-339, [arXiv:1712.09581 \[nucl-ex\]](#).
- E:** Aleev, A. and others, SVD-2 Collaboration: *Charmed particles production in pA -interactions at $\sqrt{s} = 11.8$ GeV.* *Eur. Phys. J. A* **53** 45 (2017).
- T:** Lai, Wai Kin: *Applications of Effective Theories of QCD in Collider Physics.* (2017).
- E:** Laha, Ranjan and Brodsky, Stanley J.: *IceCube can constrain the intrinsic charm of the proton.* *Phys. Rev. D* **96** 123002 (2017). SLAC-PUB-16771, [arXiv:1607.08240 \[hep-ph\]](#).
- E:** Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest.* *Eur. Phys. J. C* **77** 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E:** Brodsky, S. J. and Bednyakov, V. A. and Lykasov, G. I. and Smiesko, J. and Tokar, S.: *The Physics of Heavy Quark Distributions in Hadrons: Collider Tests.* *Prog. Part. Nucl. Phys.* **93** 108–142 (2017). [arXiv:1612.01351 \[hep-ph\]](#).
- E:** Ryadovikov, Vasily, SVD Collaboration: *Charmed particles production in pA-interactions at 70 GeV.* *EPJ Web Conf.* **125** 02016 (2016). [arXiv:1611.04736 \[hep-ex\]](#).
- E:** Ryadovikov, V. N. and others: *Measurement of the production cross section for charmed baryons in proton–nucleus interactions at 70 GeV.* *Phys. Atom. Nucl.* **79** 144–154 (2016).
- E:** Lai, Wai Kin: *Production asymmetries of D^\pm , Λ_c^+/Λ_c^- and $\Lambda_b^0/\bar{\Lambda}_b^0$ at the LHC from heavy quark recombination mechanism.* (2015). [arXiv:1508.05124 \[hep-ph\]](#).
- E:** Lai, Wai Kin and Leibovich, Adam K.: *Λ_c^+/Λ_c^- and $\Lambda_b^0/\bar{\Lambda}_b^0$ production asymmetry at the LHC from heavy quark recombination.* *Phys. Rev. D* **91** 054022 (2015). [arXiv:1410.2091 \[hep-ph\]](#).
- E:** Brodsky, S. J. and Kusina, A. and Lyonnet, F. and Schienbein, I. and Spiesberger, H. and Vogt, R.: *A review of the intrinsic heavy quark content of the nucleon.* *Adv. High Energy Phys.* **2015** 231547 (2015). MITP-15-027, LPSC-15-082, SLAC-PUB-16258, [arXiv:1504.06287 \[hep-ph\]](#).
- E:** Lai, Wai Kin and Leibovich, Adam K. and Petrov, Alexey A.: *D^\pm production asymmetry at the LHC from heavy quark recombination.* *Phys. Rev. D* **90** 054022 (2014). [arXiv:1408.2843 \[hep-ph\]](#).
- T:** Hobbs, T. J.: *The Nonperturbative Structure of Hadrons.* (2014). [arXiv:1408.5463 \[hep-ph\]](#).
- E:** Hobbs, T. J. and Londergan, J. T. and Melnitchouk, W.: *Phenomenology of nonperturbative charm in the nucleon.* *Phys. Rev. D* **89** 074008 (2014). JLAB-THY-13-1813, [arXiv:1311.1578 \[hep-ph\]](#).

- E:** Gaisser, Thomas K.: *Atmospheric leptons*. *EPJ Web Conf.* **52** 09004 (2013). [arXiv:1303.1431 \[hep-ph\]](#).
- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *On the energy dependence of the D^+/D^- production asymmetry*. *Phys. Lett. B* **724** 108–114 (2013). [arXiv:1302.0035 \[hep-ph\]](#).
- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *Charm production asymmetry at the LHC*. *J. Phys. Conf. Ser.* **458** 012014 (2013).
- E:** Ahn, Eun-Joo and Engel, Ralph and Fedynitch, Anatoli and Gaisser, Thomas K. and Riehn, Felix and Stanev, Todor: *Atmospheric neutrinos at high energy*. (2013).
- E:** Ahn, Eun-Joo and Engel, Ralph and Gaisser, Thomas K. and Lipari, Paolo and Stanev, Todor: *Sibyll with charm*. (2011). [arXiv:1102.5705 \[astro-ph.HE\]](#).
- E:** Gaisser, Thomas K.: *Cosmic rays: current status, historical context*. (2010). C113, [arXiv:1010.5996 \[astro-ph.HE\]](#).
- E:** Desiati, Paolo and Gaisser, Thomas K.: *Seasonal variation of atmospheric leptons as a probe of charm*. *Phys. Rev. Lett.* **105** 121102 (2010). [arXiv:1008.2211 \[astro-ph.HE\]](#).
- A:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* **64** 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- E:** Gaisser, Thomas: *Atmospheric muons and neutrinos in neutrino telescopes*. eCONF C0906083 16 (2009).
- E:** Brodsky, Stanley J. and Goldhaber, Alfred S. and Kopeliovich, Boris Z. and Schmidt, Ivan: *Higgs Hadroproduction at Large Feynman x*. *Nucl. Phys. B* **807** 334–347 (2009). USM-TH-214, SLAC-PUB-12664, [arXiv:0707.4658 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- A:** Vazquez-Jauregui, E. and others, SELEX Collaboration: *First Observation of the Cabibbo-Suppressed Decays $\Xi_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$ and $\Xi_c^+ \rightarrow \Sigma^- \pi^+ \pi^+$ and Measurement of their Branching Ratios*. *Phys. Lett. B* **666** 299–304 (2008). UASLP-IF-08-001, FERMILAB-PUB-08-084-E, [arXiv:0804.2298 \[hep-ex\]](#).
- T:** Lopez-Hinojosa, Guillermo: *Determinación de la razón de decaimiento de $\Lambda_c^+ \rightarrow p \pi^+ \pi^-$* . [doi:10.2172/928099](#) (2008). FERMILAB-MASTERS-2008-02 .
- E:** Heck, D.: *Charmed particles in CORSIKA*. (2008). FZKA-7366.
- E:** Berghaus, P. and Birdsall, R. and Desiati, P. and Montaruli, T. and Ranft, J.: *High energy and prompt neutrino production in the atmosphere*. *J. Phys. Conf. Ser.* **136** 042019 (2008).
- E:** Berghaus, P. and Montaruli, T. and Ranft, J.: *Charm Production in DPMJET*. *JCAP* **06** 003 (2008). [arXiv:0712.3089 \[hep-ex\]](#).
- E:** Goswami, Umananda Dev: *Charmed hadron production in p p collision*. *Astropart. Phys.* **28** 251–261 (2007).
- E:** Gao, Puze and Ma, Bo-Qiang: *The Leading particle effect from light quark fragmentation in charm hadroproduction*. *Eur. Phys. J. C* **50** 603–608 (2007). [arXiv:hep-ph/0703133](#).
- E:** Hao, Gang and Li, Lin and Qiao, Cong-Feng: *D(s) asymmetry in photoproduction*. *Int. J. Mod. Phys. A* **21** 893–896 (2006). [arXiv:hep-ph/0509303](#).
- T:** Slabospitsky, Sergei Rostislavovich: *Single phenomenological approach to describing the processes of hadrons with heavy quarks at high energies*. (2005).
- A:** Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^-* . *Phys. Lett. B* **628** 18–24 (2005). FERMILAB-PUB-04-082-E, [arXiv:hep-ex/0406033](#).
- E:** Piskounova, O. I. and Nikitin, N. V.: *Production and decay of charmed baryons: Spectra of muons and asymmetry between μ^+ and μ^-* . *Phys. Atom. Nucl.* **68** 2124 (2005). [arXiv:hep-ph/0503006](#).
- E:** Goswami, U. D. and Boruah, K: *Asymmetry in charmed hadron production in pp collisions*. (2005).
- A:** Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons*. *AIP Conf. Proc.* **756** 192–194 (2005).
- A:** Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons*. *Nucl. Phys. A* **752** 121–128 (2005).
- E:** Tomasi-Gustafsson, Egle and Rekalo, Michail P.: *Polarization phenomena in open charm photoproduction processes*. *Phys. Rev. D* **69** 094015 (2004). [arXiv:hep-ph/0310172](#).
- E:** Tashiro, Tsutomu and Nakariki, Shin-ichi and Noda, Hujio and Kinoshita, Kisei and Lan, Shu-xin: *Leading effects in hadroproductions of Lambda(c) and D from constituent quark - diquark cascade picture*. *Int. J. Mod. Phys. A* **19** 599–612 (2004). [arXiv:hep-ph/0307387](#).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- A:** Russ, J. S.: *Recent hadron physics results from Fermilab*. *AIP Conf. Proc.* **717** 507–514 (2004).
- E:** Mehen, Thomas: *Recent developments in heavy quark and quarkonium production*. *Acta Phys. Polon. B* **35** 121–130 (2004). JLAB-THY-03-222, [arXiv:hep-ph/0312239](#).
- E:** Mehen, Thomas: *Quark matter: charm production asymmetries from heavy-quark recombination*. *J. Phys. G* **30** S295–S304 (2004).

- E: Mehen, Thomas: *Charm production asymmetries from heavy quark recombination*. *AIP Conf. Proc.* **698** 508–512 (2004). [arXiv:hep-ph/0306178](#).
- E: Braaten, Eric and Kusunoki, Masaoki and Jia, Yu and Mehen, Thomas: *Lambda+(c) / Lambda-(c) asymmetry in hadroproduction from heavy quark recombination*. *Phys. Rev. D* **70** 054021 (2004). JLAB-PHY-03-232, [arXiv:hep-ph/0304280](#).
- E: Tashiro, Tsutomu and Nakariki, Shin-ichi and Noda, Hujio and Kinoshita, Kisei: *Leading particle effect on charmed hadron production in quark-diquark cascade model*. (2003).
- A: Kaya, M and others, SELEX Collaboration: *Production Asymmetry of D_s from 600-GeV/c Σ^- and π^- Beam*. *Phys. Lett. B* **558** 34–40 (2003). FERMILAB-PUB-03-026-E, [arXiv:hep-ex/0302039](#).
- A: Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons*. *Czech. J. Phys.* **53** B201–B213 (2003). FERMILAB-CONF-02-380-E, [arXiv:hep-ex/0212029](#).
- A: Russ, J. S., SELEX Collaboration: *First Observation of a Family of Double Charm Baryons*. *Frascati Phys. Ser.* **31** 25–28 (2003). FERMILAB-CONF-02-236-E, [arXiv:hep-ex/0209075](#).
- E: Rapp, R. and Shuryak, E. V.: *D meson production from recombination in hadronic collisions*. *Phys. Rev. D* **67** 074036 (2003). [arXiv:hep-ph/0301245](#).
- E: Piskounova, O.: *Leading effects in the spectra of Lambda/c and anti-Lambda/c produced in pi- p interactions*. (2003).
- E: Piskounova, Olga I.: *Leading effects in the spectra of Lambda(c) and anti-Lambda(c) produced in Sigma- p, pp and pi- p interactions*. *Phys. Atom. Nucl.* **66** 307–312 (2003). [arXiv:hep-ph/0202005](#).
- A: Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- E: Jia, Yu: *Anomalous three jet and heavy quark fragmentation*. (2003). [arXiv:hep-ph/0305172](#).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- E: Chang, Chao-Hsi and Ma, Jian-Ping and Si, Zong-Guo: *A QCD analysis of quark recombination for leading particle effect*. *Phys. Rev. D* **68** 014018 (2003). AS-ITP-2003-002, [arXiv:hep-ph/0301253](#).
- E: Avila, C. and Magnin, J. and Mendoza-Navas, L. M.: *Charm particle production in hadronic collisions*. (2003). [arXiv:hep-ph/0307358](#).
- A: Mattson, M. and others, SELEX Collaboration: *First Observation of the Doubly Charmed Baryon Ξ_{cc}^+* . *Phys. Rev. Lett.* **89** 112001 (2002). FERMILAB-PUB-02-183-E, [arXiv:hep-ex/0208014](#).
- E: Mehen, Tom: *Heavy quark recombination and charm production asymmetries*. (2002).
- T: Medellin Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^-\pi^+$* . [doi:10.2172/1155152](#) (2002). FERMILAB-MASTERS-2002-01 .
- E: Gottschalk, Erik Edward: *Beauty, Charm and Hyperon Production at Fixed - Target Experiments*. *Frascati Phys. Ser.* **28** 17–30 (2002). FERMILAB-CONF-02-323-E.
- E: Braaten, Eric and Jia, Yu and Mehen, Thomas: *The Leading particle effect from heavy quark recombination*. *Phys. Rev. Lett.* **89** 122002 (2002). JLAB-PHY-02-17, [arXiv:hep-ph/0205149](#).
- E: Braaten, E.: *The leading particle effect in charm hadroproduction from heavy quark recombination*. (2002).
34. Ocherashvili, A. and others, SELEX Collaboration: *First Measurement of $\pi^- e \rightarrow \pi^- e \gamma$ Pion Virtual Compton Scattering*. *Phys. Rev. C* **66** 034613 (2002). [arXiv:hep-ex/0109003](#).

7 Citations:

- E: Moinester, Murray and Scherer, Stefan: *Compton Scattering off Pions and Electromagnetic Polarizabilities*. *Int. J. Mod. Phys. A* **34** 1930008 (2019). MITP/19-034, [arXiv:1905.05640 \[hep-ph\]](#).
- T: Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E: Su, Jian and Ma, Bo-Qiang: *Applicability of perturbative QCD to pion virtual Compton scattering*. *Phys. Lett. B* **574** 217–224 (2003). [arXiv:hep-ph/0310092](#).
- A: Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- E: Zeng, Ding-Fang and Ma, Bo-Qiang: *Recalculation of pion Compton scattering in perturbative QCD*. *Phys. Lett. B* **542** 55–64 (2002). [arXiv:hep-ph/0202220](#).
- E: Unkmeir, C. and Ocherashvili, A. and Fuchs, T. and Moinester, M. A. and Scherer, S.: *Pion generalized dipole polarizabilities by virtual Compton scattering $\pi e \rightarrow \pi e \gamma$* . *Phys. Rev. C* **65** 015206 (2002). TAUP-2586-99, MKPH-T-01-07, [arXiv:hep-ph/0107020](#).

33. Adamovich, M. I. and others: *Spectra and correlations of lambda and lambda produced in 340-GeV/c Sigma- + C and 260-GeV/c n+c interactions*. [Phys. Rev. C 65 042202 \(2002\)](#).
- 5 Citations:
- A: Siebert, H. W.: *The challenge of correlations in hadronic production of V0 V0 pairs*. [Eur. Phys. J. ST 162 155–159 \(2008\)](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Production of V0 pairs in the hyperon experiment WA89*. [Eur. Phys. J. C 52 857–874 \(2007\)](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Search for the exotic Xi-(1860) resonance in 340-GeV/c Sigma-nucleus interactions*. [Phys. Rev. C 70 022201 \(2004\)](#). [arXiv:hep-ex/0405042](#).
 - A: Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work*. (2004). [arXiv:hep-ex/0406077](#).
 - E: Gottschalk, Erik Edward: *Beauty, Charm and Hyperon Production at Fixed - Target Experiments*. Frascati Phys. Ser. 28 17–30 (2002). FERMLAB-CONF-02-323-E.
32. Adamovich, M. I. and others, WA89 Collaboration: *A study of Sigma+-, Sigma*+- and anti-Sigma(1385)- production in the hyperon beam experiment WA89 at CERN*. [Eur. Phys. J. C 22 255–267 \(2001\)](#).
- 9 Citations:
- E: Arakelyan, G. H. and Kaidalov, A. B. and Merino, C. and Shabelski, Yu. M.: *Production of Strange Secondaries in High Energy Sigma(-)A Collisions*. [Phys. Atom. Nucl. 74 426–436 \(2011\)](#). [arXiv:1004.4074 \[hep-ph\]](#).
 - A: Siebert, H. W.: *The challenge of correlations in hadronic production of V0 V0 pairs*. [Eur. Phys. J. ST 162 155–159 \(2008\)](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Observation of a resonance in the K(s)p decay channel at a mass of 1765 MeV/c**2*. [Eur. Phys. J. C 50 535–538 \(2007\)](#). [arXiv:hep-ex/0702044](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Production of V0 pairs in the hyperon experiment WA89*. [Eur. Phys. J. C 52 857–874 \(2007\)](#).
 - E: Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. [Nucl. Phys. A 754 430–442 \(2005\)](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Search for the exotic Xi-(1860) resonance in 340-GeV/c Sigma-nucleus interactions*. [Phys. Rev. C 70 022201 \(2004\)](#). [arXiv:hep-ex/0405042](#).
 - A: Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work*. (2004). [arXiv:hep-ex/0406077](#).
 - A: Alexandrov, Yu., WA89 Collaboration: *A MEASUREMENT OF A POLARIZATION IN INCLUSIVE PRODUCTION BY Σ- 340 GeV /c IN C AND Cu TARGETS*. (2004).
 - E: Gottschalk, Erik Edward: *Beauty, Charm and Hyperon Production at Fixed - Target Experiments*. Frascati Phys. Ser. 28 17–30 (2002). FERMLAB-CONF-02-323-E.
31. Adamovich, M. I. and others, WA89 Collaboration: *A measurement of K*+- production in the hyperon beam experiment at CERN*. [Eur. Phys. J. C 22 47–54 \(2001\)](#).
- 3 Citations:
- A: Siebert, H. W.: *The challenge of correlations in hadronic production of V0 V0 pairs*. [Eur. Phys. J. ST 162 155–159 \(2008\)](#).
 - A: Adamovich, M. I. and others, WA89 Collaboration: *Production of V0 pairs in the hyperon experiment WA89*. [Eur. Phys. J. C 52 857–874 \(2007\)](#).
 - E: Dohrmann, F.: *Production of strangeness in hot and cold nuclear matter induced by both leptonic and hadronic projectiles*. [Int. J. Mod. Phys. E 15 761–851 \(2006\)](#).
30. Molchanov, V. V. and others, SELEX Collaboration: *Radiative Decay Width of the a2(1320)- Meson*. [Phys. Lett. B 521 171–180 \(2001\)](#). [arXiv:hep-ex/0109016](#).
- 36 Citations:
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. [Phys. Rev. D 110 030001 \(2024\)](#).
 - E: Moinester, Murray: *Tribute to Henry Primakoff: Tests of Chiral Perturbation Theory via Primakoff Reactions*. (2024). [arXiv:2412.03669 \[hep-ph\]](#).
 - E: Farhadi, Mansour and Moosavi Nejad, S. Mohammad and Armat, A.: *Radiative and semileptonic decay widths of heavy ground state baryons in diquark model*. [Eur. Phys. J. A 59 171 \(2023\)](#).
 - E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2022 083C01 \(2022\)](#).
 - E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2020 083C01 \(2020\)](#).

- E:** Ketzer, Bernhard and Grube, Boris and Ryabchikov, Dmitry: *Light-Meson Spectroscopy with COMPASS*. *Prog. Part. Nucl. Phys.* **113** 103755 (2020). [arXiv:1909.06366 \[hep-ex\]](#).
- E:** Zhang, Xu and Xie, Ju-Jun: *Study of the $a_1(1260)$ resonance in the $\gamma p \rightarrow \pi^+\pi^+\pi^-n$ reaction*. *Chin. Phys. C* **43** 064104 (2019). [arXiv:1812.04242 \[hep-ph\]](#).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- T:** Krämer, Markus: *Evaluation and Optimization of a Digital Calorimetric Trigger and Analysis of Pion-Photon Interactions in $\pi^-Ni \rightarrow \pi^-\pi^0\pi^0Ni$ Reactions at COMPASS at CERN*. (2016).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Maeda, Tomohito and Yamada, Kenji and Oda, Masuho and Ishida, Shin: *Radiative $\pi - \gamma$ transitions of excited light-quark mesons in the covariant oscillator quark model*. *Int. J. Mod. Phys. Conf. Ser.* **35** 1460454 (2014). [arXiv:1310.7507 \[hep-ph\]](#).
- E:** Adolph, C. and others, COMPASS Collaboration: *Measurement of radiative widths of $a_2(1320)$ and $\pi_2(1670)$* . *Eur. Phys. J. A* **50** 79 (2014). CERN-PH-EP-2014-041, [arXiv:1403.2644 \[hep-ex\]](#).
- E:** Krämer, Markus, COMPASS Collaboration: *Measurement of radiative widths at COMPASS*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 086 (2013).
- E:** Ketzer, Bernhard, COMPASS Collaboration: *Precision Studies of Light Mesons at COMPASS*. *XV International Conference on Hadron Spectroscopy. Proceedings of Science Hadron2013* 011 (2013). [arXiv:1403.4884 \[hep-ex\]](#).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- T:** Grabmüller, Stefanie: *Cryogenic Silicon Detectors and Analysis of Primakoff Contributions to the Reaction $\pi^-Pb \rightarrow \pi^-\pi^-\pi^+Pb$ at COMPASS*. (2012). CERN-THESIS-2012-170.
- T:** Friedrich, Jan Michael: *Chiral Dynamics in Pion-Photon Reactions*. (2012). CERN-THESIS-2012-333.
- E:** Grabmüller, Stefanie, COMPASS Collaboration: *Diffraction and coulomb dissociation of pions into three charged pions at low momentum transfer at COMPASS*. *Int. J. Mod. Phys. A* **26** 751–753 (2011).
- E:** Austregesilo, Alexander, COMPASS Collaboration: *The COMPASS Hadron Spectroscopy Programme*. *Fizika B* **20** 117–130 (2011). [arXiv:1207.0952 \[hep-ex\]](#).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Friedrich, Jan, COMPASS Collaboration: *Tests of chiral perturbation theory with COMPASS*. *AIP Conf. Proc.* **1322** 457–462 (2010).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- T:** Weitzel, Q.: *Precision Meson Spectroscopy: Diffractive Production at COMPASS and Development of a GEM-based TPC for PANDA*. (2008). CERN-THESIS-2008-180.
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Klempt, Eberhard and Zaitsev, Alexander: *Glueballs, Hybrids, Multiquarks. Experimental facts versus QCD inspired concepts*. *Phys. Rept.* **454** 1–202 (2007). [arXiv:0708.4016 \[hep-ph\]](#).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E:** Antipov, Yu. M. and others, SPHINX Collaboration: *Measurement of the radiative decay width $\Gamma[\Lambda(1520) \rightarrow \Lambda\gamma]$ with the SPHINX spectrometer*. *Phys. Lett. B* **604** 22–30 (2004). IHEP-2004-25, [arXiv:hep-ex/0406039](#).
- A:** Molchanov, V. V. and others, SELEX Collaboration: *Upper limit on the decay $\Sigma(1385)^- \rightarrow \Sigma^-\gamma$, and Cross Section for $\gamma\Sigma^- \rightarrow \Lambda\pi^-$* . *Phys. Lett. B* **590** 161–169 (2004). FERMILAB-PUB-04-020-E, [arXiv:hep-ex/0402026](#).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).
- A:** Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- A:** Moinester, Murray, COMPASS Collaboration: *Pion and kaon polarizabilities at CERN COMPASS*. *Czech. J. Phys.* **53** B169–B187 (2003). [arXiv:hep-ex/0301024](#).
- A:** Moinester, Murray: *Hybrid meson production via ultraperipheral pion scattering from a virtual photon target*. (2003). [arXiv:hep-ex/0301023](#).

- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- E:** Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group*. *Phys. Rev. D* **66** 010001 (2002).
29. Iori, M and others, SELEX Collaboration: *Measurement of the D_s^\pm Lifetime*. *Phys. Lett. B* **523** 22–28 (2001). [arXiv:hep-ex/0106005](#).
- 34 Citations:
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E:** Adachi, I. and others, Belle-II Collaboration: *Precise Measurement of the D_{s^+} Lifetime at Belle II*. *Phys. Rev. Lett.* **131** 171803 (2023). Belle-Preprint-2023-007, KEK-Preprint-2023-5, UCHEP-23-03, Belle Preprint 2023-007, KEK Preprint 2023-5, Univ. Cincinnati preprint UCHEP-23-03, [arXiv:2306.00365 \[hep-ex\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). FERMILAB-THESIS-2006-91 .
- E:** Cumalat, J. P.: *Recent results from the FOCUS Collaboration*. *AIP Conf. Proc.* **814** 431–435 (2006).
- E:** Link, J. M. and others, FOCUS Collaboration: *A Measurement of the $D^+(s)$ lifetime*. *Phys. Rev. Lett.* **95** 052003 (2005). FERMILAB-PUB-05-085-E, [arXiv:hep-ex/0504056](#).
- A:** Cooper, Peter S.: *New results in charm meson spectroscopy from FOCUS and SELEX*. *J. Phys. Conf. Ser.* **9** 53–58 (2005). FERMILAB-CONF-05-003.
- A:** Evdokimov, A. V. and others, SELEX Collaboration: *First Observation of a Narrow Charm-Strange Meson $D_{s^+}^+(2632) \rightarrow D_s^+ \eta$ and $D^0 K^+$* . *Phys. Rev. Lett.* **93** 242001 (2004). FERMILAB-PUB-04-087-E, [arXiv:hep-ex/0406045](#).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group*. *Phys. Lett. B* **592** 1 (2004).
- E:** Boca, G.: *Beauty and charm lifetimes. An experimental review*. *Frascati Phys. Ser.* **35** 293–302 (2004).
- E:** Semenov, S. V.: *An update: physics of charmed hadrons*. *Phys. Atom. Nucl.* **66** 526–546 (2003).
- A:** Kaya, M and others, SELEX Collaboration: *Production Asymmetry of D_s from 600-GeV/c Σ^- and π^- Beam*. *Phys. Lett. B* **558** 34–40 (2003). FERMILAB-PUB-03-026-E, [arXiv:hep-ex/0302039](#).
- A:** Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- A:** Iori, M., SELEX Collaboration: *Selex results on D/s^{+-} , D^{+-} , D^{*+-} and $D0$ / anti- $D0$ production*. *Nucl. Phys. B Proc. Suppl.* **115** 103–106 (2003).
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).

- E: Boca, Gianluigi: *D0 anti-D0 mixing and charm lifetimes. An experimental review.* eConf C030603 MEC08 (2003). FPCP-2003-MEC08.
- E: Smith, Alex: *Recent advances in charm physics.* eConf C020620 THAT05 (2002). PIC-2002-THAT05, [arXiv:hep-ex/0209033](#).
- E: Roudeau, P.: *Tau and charm physics highlights.* *Int. J. Mod. Phys. A* **17** 3037–3058 (2002). [arXiv:hep-ph/0110397](#).
- E: Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics.* *Particle Data Group. Phys. Rev. D* **66** 010001 (2002).
- T: Medellin Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^- \pi^+$.* doi:10.2172/1155152 (2002). FERMILAB-MASTERS-2002-01 .
- E: Kass, Richard: *Charm physics: Experimental review.* (2002).
- E: Kass, Richard: *Recent results on charm decays.* (2002).
- E: Cheung, Harry W. K.: *Charm Lifetimes and Mixing.* *AIP Conf. Proc.* **618** 321–328 (2002). FERMILAB-CONF-01-351-E, [arXiv:hep-ex/0111050](#).
- E: Kutschke, Robert K.: *Charm and beauty physics at Fermilab.* (2001).
28. Gough Eschrich, Ivo M. and others, SELEX Collaboration: *Measurement of the Sigma- Charge Radius by Sigma- Electron Elastic Scattering.* *Phys. Lett. B* **522** 233–239 (2001). [arXiv:hep-ex/0106053](#).
- 96 Citations:
- E: Ramalho, G. and Tsushima, K. and Cheoun, Myung-Ki: *Electroweak form factors of baryons in dense nuclear matter.* (2025). LFTC-25-01/95, [arXiv:2504.15660 \[nucl-th\]](#).
- E: Chen, Cheng and Yan, Bing and Xie, Ju-Jun: *The electromagnetic form factors and spin polarization of Λ_c^+ in the process $e^+e^- \rightarrow \Lambda_c^+ \bar{\Lambda}_c^-$.* *Chin. Phys. C* **49** 023102 (2025). [arXiv:2407.19445 \[hep-ph\]](#).
- E: Ramalho, G. and Peña, M. T.: *Electromagnetic transition form factors of baryon resonances.* *Prog. Part. Nucl. Phys.* **136** 104097 (2024). [arXiv:2306.13900 \[hep-ph\]](#).
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- E: Lin, Yong-Hui and Hammer, Hans-Werner and Meißner, Ulf-G.: *Baryon Form Factors.* (2024). [arXiv:2412.12885 \[hep-ph\]](#).
- E: Lin, Yong-Hui and Guo, Feng-Kun and Meißner, Ulf-G.: *Method for measuring the charge radii of charged hyperons from the time-like region.* *Phys. Lett. B* **856** 138887 (2024). [arXiv:2309.07850 \[hep-ph\]](#).
- E: Ablikim, M. and others, BESIII Collaboration: *Determination of the Σ^+ Timelike Electromagnetic Form Factors.* *Phys. Rev. Lett.* **132** 081904 (2024). [arXiv:2307.15894 \[hep-ex\]](#).
- E: Yan, Bing and Chen, Cheng and Xie, Ju-Jun: *Σ and Ξ electromagnetic form factors in the extended vector meson dominance model.* *Phys. Rev. D* **107** 076008 (2023). [arXiv:2301.00976 \[hep-ph\]](#).
- E: Simula, Silvano and Vittorio, Ludovico: *Dispersive analysis of the experimental data on the electromagnetic form factor of charged pions at spacelike momenta.* *Phys. Rev. D* **108** 094013 (2023). [arXiv:2309.02135 \[hep-ph\]](#).
- E: Schönning, Karin and Batozskaya, Varvara and Adlarson, Patrik and Zhou, Xiaorong: *Production and decay of polarized hyperon-antihyperon pairs*.* *Chin. Phys. C* **47** 052002 (2023). [arXiv:2302.13071 \[hep-ph\]](#).
- E: Ma, Yao and Meng, Lu and Chen, Yan-Ke and Zhu, Shi-Lin: *Ground state baryons in the flux-tube three-body confinement model using diffusion Monte Carlo.* *Phys. Rev. D* **107** 054035 (2023). [arXiv:2211.09021 \[hep-ph\]](#).
- E: Boone, Benjamin and Chen, Michael and Sturm, Kevin and Yoo, Justin and Higinbotham, Douglas: *Comment on Transverse Charge Density and the Radius of the Proton.* (2023). [arXiv:2302.07356 \[nucl-ex\]](#).
- E: Binosi, Daniele: *Data-Driven Extraction of Hadron Radii.* *Few Body Syst.* **64** 85 (2023).
- E: Bhall, Preeti and Batra, Meenakshi and Upadhyay, Alka: *Sea contribution to the charge radii and quadrupole moment of $JP \frac{1}{2}^+$, $^3/B \bar{B} B^+$ baryons.* *PTEP* **2023** 093B03 (2023). [arXiv:2305.01894 \[hep-ph\]](#).
- T: Wang, Yimin: *New techniques in low- Q^2 elastic electron-proton scattering measurements and the proton radius extraction.* (2022).
- T: Thorén, Viktor: *Hadron Physics in a Polarized World : Exploring Electromagnetic Interactions with Spin Observables.* (2022).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2022** 083C01 (2022).
- E: Cui, Zhu-Fang and Binosi, Daniele and Roberts, Craig D. and Schmidt, Sebastian M.: *Hadron and light nucleus radii from electron scattering*.* *Chin. Phys. C* **46** 122001 (2022). NJU-INP 058/22, [arXiv:2204.05418 \[hep-ph\]](#).
- E: Alexandrou, Constantia and Bacchio, Simone and Cloet, Ian and Constantinou, Marthia and Delmar, Joseph and Hadjiyiannakou, Kyriakos and Koutsou, Giannis and Lauer, Colin and Vaquero, Alejandro, ETM Collaboration: *Scalar, vector, and tensor form factors for the pion and kaon from lattice QCD.* *Phys. Rev. D* **105** 054502 (2022). [arXiv:2111.08135 \[hep-lat\]](#).

- E:** Wang, Gen and Liang, Jian and Draper, Terrence and Liu, Keh-Fei and Yang, Yi-Bo, chiQCD Collaboration: *Lattice Calculation of Pion Form Factor with Overlap Fermions*. *Phys. Rev. D* **104** 074502 (2021). [arXiv:2006.05431 \[hep-ph\]](#).
- E:** Mihovilović, M. and others: *The proton charge radius extracted from the initial-state radiation experiment at MAMI*. *Eur. Phys. J. A* **57** 107 (2021). [arXiv:1905.11182 \[nucl-ex\]](#).
- E:** Gao, Xiang and Karthik, Nikhil and Mukherjee, Swagato and Petreczky, Peter and Syritsyn, Sergey and Zhao, Yong: *Pion form factor and charge radius from lattice QCD at the physical point*. *Phys. Rev. D* **104** 114515 (2021). [arXiv:2102.06047 \[hep-lat\]](#).
- E:** Cui, Zhu-Fang and Binosi, Daniele and Roberts, Craig D. and Schmidt, Sebastian M.: *Pion charge radius from pion+electron elastic scattering data*. *Phys. Lett. B* **822** 136631 (2021). NJU-INP 047/21, [arXiv:2108.04948 \[hep-ph\]](#).
- T:** Xiong, Weizhi: *A High Precision Measurement of the Proton Charge Radius at JLab*. (2020). JLAB-PHY-20-3266, DOE/OR/23177-5059.
- T:** Wang, Gen: *The Pion Form Factor and Momentum and Angular Momentum Fractions of the Proton in Lattice QCD*. [doi:10.13023/etd.2020.406](#) (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- E:** Karr, Jean-Philippe and Marchand, Dominique and Voutier, Eric: *The proton size*. *Nature Rev. Phys.* **2** 601–614 (2020).
- T:** Giuliani, Pablo Gustavo: *Outsmarting Uncertainty: Statistics Strategies for Nuclear Physics*. (2020).
- E:** Feng, Xu and Fu, Yang and Jin, Lu-Chang: *Lattice QCD calculation of the pion charge radius using a model-independent method*. *Phys. Rev. D* **101** 051502 (2020). [arXiv:1911.04064 \[hep-lat\]](#).
- E:** Chernichenko, Yu. D.: *Form Factor for a Two-Fermion Composite System: Case of Equal Masses and Vector Current*. *Phys. Atom. Nucl.* **82** 334–342 (2019).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Higinbotham, Douglas W. and Giuliani, Pablo and McClellan, Randall E. and Sirca, Simon and Yan, Xuefei: *Bias-Variance Trade-off and Model Selection for Proton Radius Extractions*. (2018). JLAB-PHY-19-2851, [arXiv:1812.05706 \[physics.data-an\]](#).
- E:** Buchmann, Alfons J.: *Electromagnetic Multipole Moments of Baryons*. *Few Body Syst.* **59** 145 (2018). [arXiv:1902.10166 \[hep-ph\]](#).
- T:** Hagelstein, Franziska Elfriede Hildegard: *Exciting nucleon in Compton scattering and hydrogen-like atoms*. (2017).
- T:** Hagelstein, Franziska: *Exciting Nucleons in Compton Scattering and Hydrogen-Like Atoms*. [doi:10.13140/RG.2.2.25062.73281](#) (2017). [arXiv:1710.00874 \[nucl-th\]](#).
- E:** Sanchis-Alepuz, Helios and Fischer, Christian S.: *Hyperon elastic electromagnetic form factors in the space-like momentum region*. *Eur. Phys. J. A* **52** 34 (2016). [arXiv:1512.00833 \[hep-ph\]](#).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E:** Krutov, A. F. and Polezhaev, R. G. and Troitsky, V. E.: *The radius of the rho meson determined from its decay constant*. *Phys. Rev. D* **93** 036007 (2016). [arXiv:1602.00907 \[hep-ph\]](#).
- E:** Kaur, A. and Gupta, P. and Upadhyay, A.: *Charge radii of nucleons in statistical model*. DAE Symp. Nucl. Phys. **61** 718–719 (2016).
- E:** Eichmann, Gernot and Sanchis-Alepuz, Helios and Williams, Richard and Alkofer, Reinhard and Fischer, Christian S.: *Baryons as relativistic three-quark bound states*. *Prog. Part. Nucl. Phys.* **91** 1–100 (2016). [arXiv:1606.09602 \[hep-ph\]](#).
- E:** Zahra, Sarwat and Rashid, Haris and Fazal-e-Aleem and Hussain, Talib and Zafar, Abrar Ahmad and Tahir, Sohail Afzal: *Geometrical Models and Hadronic Radii*. (2015). [arXiv:1510.09146 \[hep-ph\]](#).
- E:** Lacki, Brian C.: *SETI at Planck Energy: When Particle Physicists Become Cosmic Engineers*. (2015). [arXiv:1503.01509 \[astro-ph.HE\]](#).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Sharma, Neetika and Dahiya, Harleen: *Charge radii of octet and decuplet baryons in chiral constituent quark model*. *Pramana* **81** 449–465 (2013).
- E:** Sharma, Neetika and Dahiya, Harleen: *Charge Radii and Quadrupole Moments of the Low-Lying Baryons in the Chiral Constituent Quark Model*. *Adv. High Energy Phys.* **2013** 756847 (2013).
- E:** Ramalho, G. and Tsuchima, K. and Thomas, A. W.: *Octet Baryon Electromagnetic form Factors in Nuclear Medium*. *J. Phys. G* **40** 015102 (2013). ADP-12-25-T792, [arXiv:1206.2207 \[hep-ph\]](#).
- E:** Bartos, E. and Dubnicka, S. and Dubnickova, A. -Z.: *The advanced nucleon electromagnetic structure model and prediction of hyperon electromagnetic form factors*. *Nucl. Phys. B Proc. Suppl.* **245** 78–81 (2013).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.

- E:** Hill, Richard J.: *Status of the proton radius puzzle.* (2012).
- E:** Dong, Yu-Bing and Wang, Yi-Zhan: *A study of pion structures in an effective Lagrangian approach.* *J. Phys. G* **39** 025003 (2012).
- E:** Bernauer, J. C.: *Precise form factors from elastic electron scattering.* *J. Phys. Conf. Ser.* **381** 012006 (2012).
- E:** Sharma, Neetika and Dahiya, Harleen: *Charge Radii of Octet and Decuplet Baryons.* *AIP Conf. Proc.* **1388** 458–460 (2011). [arXiv:1107.3931 \[hep-ph\]](#).
- E:** Ramalho, G. and Tsushima, K.: *Octet baryon electromagnetic form factors in a relativistic quark model.* *Phys. Rev. D* **84** 054014 (2011). ADP-11-24-T746, [arXiv:1107.1791 \[hep-ph\]](#).
- E:** Dahiya, Harleen and Sharma, Neetika: *Electromagnetic form factors of the nucleon in the chiral constituent quark model.* (2011). [arXiv:1108.0250 \[hep-ph\]](#).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics.* *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Dong, Yubing: *Transverse charge density of the pion in a realistic effective Lagrangian approach.* *Phys. Rev. C* **81** 018201 (2010).
- E:** Dahiya, Harleen and Sharma, Neetika: *Chiral symmetry breaking and electromagnetic structure of the nucleon.* *AIP Conf. Proc.* **1322** 445–451 (2010). [arXiv:1010.0085 \[hep-ph\]](#).
- E:** Borisjuk, Dmitry: *Proton charge and magnetic rms radii from the elastic ep scattering data.* *Nucl. Phys. A* **843** 59–67 (2010). [arXiv:0911.4091 \[hep-ph\]](#).
- T:** Bernauer, Jan C.: *Measurement of the elastic electron-proton cross section and separation of the electric and magnetic form factor in the Q^2 range from 0.004 to 1 (GeV/c)².* (2010).
- E:** Wang, P. and Leinweber, D. B. and Thomas, A. W. and Young, R. D.: *Chiral extrapolation of octet-baryon charge radii.* *Phys. Rev. D* **79** 094001 (2009). JLAB-THY-08-886, ADP-08-08-T668, ANL-PHY-12172-TH-2008, [arXiv:0810.1021 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish).* [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Koschmieder, E. L.: *Theory of the Elementary Particles.* (2008). [arXiv:0804.4848 \[physics.gen-ph\]](#).
- E:** Drechsel, Dieter and Walcher, Thomas: *Hadron structure at low Q^{*2} .* *Rev. Mod. Phys.* **80** 731–785 (2008). [arXiv:0711.3396 \[hep-ph\]](#).
- E:** Bernard, Veronique: *Chiral Perturbation Theory and Baryon Properties.* *Prog. Part. Nucl. Phys.* **60** 82–160 (2008). [arXiv:0706.0312 \[hep-ph\]](#).
- E:** Faessler, A. and Gutsche, T. and Lyubovitskij, V. E. and Pumsa-Ard, K.: *Chiral dynamics of baryons in the quark model.* *AIP Conf. Proc.* **884** 43–51 (2007).
- E:** Buchmann, A. J.: *Structure of strange baryons.* [doi:10.1007/978-3-540-76367-3%5F66](#) (2007). [arXiv:0712.4383 \[hep-ph\]](#).
- T:** Pumsa-ard, Kem: *Chiral dynamics of baryons in the perturbative chiral quark model.* (2006). Ph.D. Thesis, Universität Tübingen.
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *J. Phys. G* **33** 1–1232 (2006).
- E:** Leinweber, Derek Bruce and Boinepalli, S. and Thomas, Anthony William and Wang, P. and Williams, Anthony Gordon and Young, Ross Daniel and Zanotti, James M. and Zhang, J. B.: *Strange electric form-factor of the proton.* *Phys. Rev. Lett.* **97** 022001 (2006). ADP-06-01-T632, JLAB-THY-06-01, EDINBURGH-2006-01, [arXiv:hep-lat/0601025](#).
- E:** Koschmieder, E. L.: *The Rest masses of the electron and muon and of the stable mesons and baryons.* (2006). [arXiv:physics/0602037](#).
- T:** Haupt, Christian: *Electromagnetic Properties of Baryons.* (2006). Ph.D. Thesis, Universität Bonn.
- E:** Thomas, Anthony William and Young, Ross Daniel and Leinweber, Derek Bruce: *Hadron structure on the back of an envelope.* [doi:10.1142/9789812774132%5F0006](#) (2005). JLAB-THY-05-399, ADP-05-15-T625, [arXiv:nucl-th/0509082](#).
- E:** Singh, Balraj: *Nuclear Data Sheets for A = 1.* *Nucl. Data Sheets* **106** 601–618 (2005).
- E:** Silva, A. and Urbano, D. and Goeke, K.: *Baryon form factors in the chiral quark-soliton model.* *Nucl. Phys. A* **755** 290–293 (2005).
- T:** Ossig, Gerald: *Electroweak Nucleon Structure from the Extended Goldstone-Boson-Exchange COnstituent Quark Model.* (2005). Diploma Thesis, Universität Graz.
- E:** Faessler, A. and Gutsche, T. and Lyubovitskij, V. E.: *Structure of baryons in the perturbative chiral quark model.* *Prog. Part. Nucl. Phys.* **55** 1–11 (2005).
- E:** Van Cauteren, T. and Corthals, T. and Janssen, S. and Ryckebusch, J. and Merten, D. and Metsch, B. and Petry, H. R.: *Electromagnetic transitions of hyperons in a relativistic quark model.* [doi:10.1016/j.nuclphysa.2005.03.055](#) (2004). [arXiv:nucl-th/0407017](#).

- E:** Van Cauteren, Tim and Merten, Dirk and Corthals, Tamara and Janssen, Stijn and Metsch, Bernard and Petry, Herbert R. and Ryckebusch, Jan: *Electric and magnetic form-factors of strange baryons*. *Eur. Phys. J. A* **20** 283–291 (2004). [arXiv:nucl-th/0310058](#).
- T:** Silva, António: *Form Factors of the Baryon Octet in the Chiral Quark-Soliton Model*. (2004).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).
- E:** Meissner, Ulf-G.: *Chiral dynamics with strange quarks*. *AIP Conf. Proc.* **717** 656–664 (2004). HISKP-TH-03-20, [arXiv:hep-ph/0309248](#).
- E:** Koschmieder, E. L.: *The Mass and spin of the mesons, baryons and leptons*. (2004). [arXiv:physics/0408070](#).
- E:** Julia-Diaz, B. and Riska, D. O.: *Baryon magnetic moments in relativistic quark models*. *Nucl. Phys. A* **739** 69–88 (2004). [arXiv:hep-ph/0401096](#).
- E:** Cheedket, S. and Lyubovitskij, Valery E. and Gutsche, T. and Faessler, Amand and Pumsa-ard, K. and Yan, Y.: *Electromagnetic form-factors of the baryon octet in the perturbative chiral quark model*. *Eur. Phys. J. A* **20** 317–327 (2004). [arXiv:hep-ph/0212347](#).
- A:** Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- E:** Faessler, Amand and Gutsche, T. and Ivanov, M. A. and Lyubovitskij, Valery E. and Wang, P.: *Pion and sigma meson properties in a relativistic quark model*. *Phys. Rev. D* **68** 014011 (2003). [arXiv:hep-ph/0304031](#).
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- T:** Cheedket, Sampart: *ELECTROMAGNETIC FORM FACTORS OF THE BARYON OCTET IN THE PERTURBATIVE CHIRAL QUARK MODEL*. (2003). Ph.D. Thesis, Suranaree University of Technology.
- E:** Buchmann, Alfons J. and Lebed, Richard F.: *Baryon charge radii and quadrupole moments in the $1/N(c)$ expansion: The three flavor case*. *Phys. Rev. D* **67** 016002 (2003). [arXiv:hep-ph/0207358](#).
- E:** Alexander, Gideon: *Bose-Einstein and Fermi-Dirac interferometry in particle physics*. *Rept. Prog. Phys.* **66** 481–522 (2003). TAUP-2709-03, TEL-AVIV-PREPRINT, [arXiv:hep-ph/0302130](#).
- E:** Unkmeir, C. and Ocherashvili, A. and Fuchs, T. and Moinester, M. A. and Scherer, S.: *Pion generalized dipole polarizabilities by virtual Compton scattering $\pi^- e \rightarrow \pi^- e \gamma$* . *Phys. Rev. C* **65** 015206 (2002). TAUP-2586-99, MKPH-T-01-07, [arXiv:hep-ph/0107020](#).
- A:** Ocherashvili, A. and others, SELEX Collaboration: *First Measurement of $\pi^- e \rightarrow \pi^- e \gamma$ Pion Virtual Compton Scattering*. *Phys. Rev. C* **66** 034613 (2002). FERMILAB-PUB-01-259-E, [arXiv:hep-ex/0109003](#).
- T:** Medellín Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^- \pi^+$* . [doi:10.2172/1155152](#) (2002). FERMILAB-MASTERS-2002-01 .
- E:** Meissner, Ulf-G.: *Baryon form-factors: Model independent results*. *Nucl. Phys. A* **666** 51–60 (2000). FZJ-IKP-TH-1999-18, [arXiv:hep-ph/9907323](#).
27. Kushnirenko, A. and others, SELEX Collaboration: *Precision Measurements of the Λ_c^+ and D^0 lifetimes*. *Phys. Rev. Lett.* **86** 5243–5246 (2001). [arXiv:hep-ex/0010014](#).

72 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E:** Abudinén, F. and others, Belle-II Collaboration: *Measurement of the Λ_c^+ Lifetime*. *Phys. Rev. Lett.* **130** 071802 (2023). Belle II Preprint 2022-003, KEK Preprint 2022-13, [arXiv:2206.15227 \[hep-ex\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E:** Gratx, James and Melić, Blaženka and Nišandžić, Ivan: *Lifetimes of singly charmed hadrons*. *JHEP* **07** 058 (2022). RBI-ThPhys-2022-8, [arXiv:2204.11935 \[hep-ph\]](#).
- E:** Bennett, J. V., Belle II Collaboration: *Charm lifetime measurements at Belle II*. (2022). [arXiv:2207.07175 \[hep-ex\]](#).
- E:** Abu-shady, M. and Fath-Allah, H. M.: *Masses of Single, Double, and Triple Heavy Baryons in the Hyper-Central Quark Model by Using GF-AEIM*. *Adv. High Energy Phys.* **2022** 4539308 (2022). [arXiv:2206.08372 \[hep-ph\]](#).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons*. (2020).
- E:** Aaij, Roel and others, LHCb Collaboration: *Precision measurement of the Λ_c^+ , Ξ_c^+ and Ξ_c^0 baryon lifetimes*. *Phys. Rev. D* **100** 032001 (2019). LHCb-PAPER-2019-008, CERN-EP-2019-122, [arXiv:1906.08350 \[hep-ex\]](#).

- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Signals of the double intrinsic heavy quark at the current experiments*. *J. Phys. Conf. Ser.* **938** 012054 (2017). [arXiv:1711.07252 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Anikeev, Vladimir: *Production of the doubly charmed baryons at the SELEX experiment – The double intrinsic charm approach*. *Phys. Lett. B* **765** 171–174 (2017). [arXiv:1605.03070 \[hep-ph\]](#).
- E:** Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest*. *Eur. Phys. J. C* **77** 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E:** Dhir, Rohit and Kim, C. S.: *Axial-Vector Emitting Weak Nonleptonic Decays of Ω_c^0 Baryon*. *Phys. Rev. D* **91** 114008 (2015). [arXiv:1501.04259 \[hep-ph\]](#).
- T:** Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Dhir, Rohit and Kim, C. S. and Verma, R. C.: *Magnetic Moments of Bottom Baryons: Effective mass and Screened Charge*. *Phys. Rev. D* **88** 094002 (2013). [arXiv:1309.4057 \[hep-ph\]](#).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Yasui, S. and Lee, S. H. and Ohnishi, K. and Yoo, I. K. and Koi, C. M.: *Lambda(c) enhancement from strongly coupled QGP*. *Indian J. Phys.* **85** 1043–1046 (2011).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- A:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* **64** 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- E:** Oh, Yongseok and Ko, Che Ming and Lee, Su Hong and Yasui, Shigehiro: *Heavy baryon/meson ratios in relativistic heavy ion collisions*. *Phys. Rev. C* **79** 044905 (2009). [arXiv:0901.1382 \[nucl-th\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- E:** Yasui, S. and Lee, S. H. and Ohnishi, K. and Yoo, I. -K. and Ko, C. M.: *Studying Diquark Structure of Heavy Baryons in Relativistic Heavy Ion Collisions*. *Mod. Phys. Lett. A* **23** 2254–2258 (2008). [arXiv:0803.1366 \[nucl-th\]](#).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Lee, Su Hong and Ohnishi, Kazuaki and Yasui, Shigehiro and Yoo, In-Kwon and Ko, Che-Ming: *Lambda(c) enhancement from strongly coupled quark-gluon plasma*. *Phys. Rev. Lett.* **100** 222301 (2008). [arXiv:0709.3637 \[nucl-th\]](#).
- A:** Iori, M. and others, SELEX Collaboration: *Measurement of the Ω_c^0 Lifetime*. (2007). FERMILAB-PUB-07-011-E, [arXiv:hep-ex/0701021](#).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). FERMILAB-THESIS-2006-91 .
- A:** Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^-* . *Phys. Lett. B* **628** 18–24 (2005). FERMILAB-PUB-04-082-E, [arXiv:hep-ex/0406033](#).
- A:** Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons*. *AIP Conf. Proc.* **756** 192–194 (2005).
- A:** Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons*. *Nucl. Phys. A* **752** 121–128 (2005).
- A:** Evdokimov, A. V. and others, SELEX Collaboration: *First Observation of a Narrow Charm-Strange Meson $D_{sJ}^+(2632) \rightarrow D_s^+\eta$ and D^0K^+* . *Phys. Rev. Lett.* **93** 242001 (2004). FERMILAB-PUB-04-087-E, [arXiv:hep-ex/0406045](#).
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.

- E: Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group Phys. Lett. B* **592** 1 (2004).
- A: Iori, M., SELEX Collaboration: *Measurement of the Omega/c0 lifetime*. *Frascati Phys. Ser.* **36** 125–131 (2004).
- E: Boca, G.: *Beauty and charm lifetimes. An experimental review*. *Frascati Phys. Ser.* **35** 293–302 (2004).
- E: Semenov, S. V.: *An update: physics of charmed hadrons*. *Phys. Atom. Nucl.* **66** 526–546 (2003).
- A: Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons*. *Czech. J. Phys.* **53** B201–B213 (2003). FERMILAB-CONF-02-380-E, [arXiv:hep-ex/0212029](#).
- A: Russ, J. S., SELEX Collaboration: *First Observation of a Family of Double Charm Baryons*. *Frascati Phys. Ser.* **31** 25–28 (2003). FERMILAB-CONF-02-236-E, [arXiv:hep-ex/0209075](#).
- A: Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* **670** 395–398 (2003).
- A: Iori, M., SELEX Collaboration: *Selex results on D/s+-, D+-, D*+- and D0 / anti-D0 production*. *Nucl. Phys. B Proc. Suppl.* **115** 103–106 (2003).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- A: Cooper, Peter S.: *Heavy Baryons - Recent and Very New Results*. *Nucl. Phys. B Proc. Suppl.* **115** 29–32 (2003). FERMILAB-CONF-02-350-E.
- E: Boca, Gianluigi: *D0 anti-D0 mixing and charm lifetimes. An experimental review*. eConf C030603 MEC08 (2003). FPCP-2003-MEC08.
- T: Akgun, Ugur: *CMS HF calorimeter PMTs and Xi(c)+ lifetime measurement*. [doi:10.2172/15020228](#) (2003). [UMI-31-14464](#), [FERMILAB-THESIS-2003-43](#).
- E: Yelton, John: *A Review of charmed baryon experimental data*. (2002). UF-IHEPA-02-01, [arXiv:hep-ex/0206068](#).
- E: Smith, Alex: *Recent advances in charm physics*. eConf C020620 THAT05 (2002). PIC-2002-THAT05, [arXiv:hep-ex/0209033](#).
- A: Mattson, M. and others, SELEX Collaboration: *First Observation of the Doubly Charmed Baryon Ξ_{cc}^+* . *Phys. Rev. Lett.* **89** 112001 (2002). FERMILAB-PUB-02-183-E, [arXiv:hep-ex/0208014](#).
- E: Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group Phys. Rev. D* **66** 010001 (2002).
- T: Medellin Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^-\pi^+$* . [doi:10.2172/1155152](#) (2002). [FERMILAB-MASTERS-2002-01](#).
- A: Medellin Zapata, Juan and Engelfried, Jurgen and Morelos Pineda, Antonio, SELEX Collaboration: *Resonances in $\Lambda_{b,c} \rightarrow pK^-\pi^+$* . *AIP Conf. Proc.* **623** 285–288 (2002). UASLP-IF-02-002, [arXiv:hep-ex/0202003](#).
- E: Kass, Richard: *Charm physics: Experimental review*. (2002).
- E: Kass, Richard: *Recent results on charm decays*. (2002).
- E: Link, J. M. and others, Focus Collaboration: *A New Measurement of the Ξ_c^0 Lifetime*. *Phys. Lett. B* **541** 211–218 (2002). FERMILAB-PUB-02-141-E, [arXiv:hep-ex/0206069](#).
- E: Link, J. M. and others, FOCUS Collaboration: *A High Statistics Measurement of the Λ_c^+ Lifetime*. *Phys. Rev. Lett.* **88** 161801 (2002). FERMILAB-PUB-02-015-E, [arXiv:hep-ex/0202001](#).
- E: de Miranda, J. M.: *The physics of the heavy quark program*. *Comments Nucl. Part. Phys.* **2** A362–A376 (2002).
- E: Mahmood, A. H. and others, CLEO Collaboration: *Measurement of the Xi+(c) lifetime*. *Phys. Rev. D* **65** 031102 (2002). CLNS-01-1761, CLEO-01-20, [arXiv:hep-ex/0110058](#).
- E: Cheung, Harry W. K.: *Charm Lifetimes and Mixing*. *AIP Conf. Proc.* **618** 321–328 (2002). FERMILAB-CONF-01-351-E, [arXiv:hep-ex/0111050](#).
- E: Bracker, Stephen B. and Hansen, Sten: *Description of the Damn Yankee Controller (DYC)*. (2002). FERMILAB-PUB-02-393, [arXiv:hep-ex/0210034](#).
- A: Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. *Frascati Phys. Ser.* **20** 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, [arXiv:hep-ex/0012004](#).
- E: O'Reilly, B., FOCUS Collaboration: *Recent results from FOCUS*. (2001).
- E: Kutschke, Robert K.: *Charm and beauty physics at Fermilab*. (2001).
- E: Kim, Doris Yangsoo: *Recent results on CP lifetime differences of neutral D mesons*. (2001). [arXiv:hep-ex/0105085](#).
- T: Hart, Terrence Lee: *Measurement of the Lambda(C+) and Cascade(C+) lifetimes at CLEO*. (2001). [UMI-30-22495](#).
- E: Link, J. M. and others, FOCUS Collaboration: *A New Measurement of the Ξ_c^+ Lifetime*. *Phys. Lett. B* **523** 53–59 (2001). FERMILAB-PUB-01-296-E, [arXiv:hep-ex/0110002](#).
- E: Artuso, M. and others, CLEO Collaboration: *Measurement of the Xi(c)+ lifetime*. (2001). CLEO-CONF-01-03, [arXiv:hep-ex/0107040](#).
- E: Cheung, Harry: *Recent charm physics results from fixed target experiments (Focus-E791-Selex)*. (2001).
- T: Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes*. [doi:10.2172/1421447](#) (2000). [UMI-30-02781](#), [FERMILAB-THESIS-2000-09](#).

26. Adamovich, M. I. and others, WA89 Collaboration: *Determination of the total c anti- c production cross-section in 340-GeV/c sigma- nucleus interactions.* *Eur. Phys. J. C* **13** 247–254 (2000). [arXiv:hep-ex/9908061](#).

16 Citations:

- E:** Maciula, Rafal and Szczurek, Antoni: *D meson production asymmetry, unfavored fragmentation, and consequences for prompt atmospheric neutrino production.* *Phys. Rev. D* **97** 074001 (2018). [arXiv:1711.08616 \[hep-ph\]](#).
- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *On the energy dependence of the D^+ / D^- production asymmetry.* *Phys. Lett. B* **724** 108–114 (2013). [arXiv:1302.0035 \[hep-ph\]](#).
- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *Charm production asymmetry at the LHC.* *J. Phys. Conf. Ser.* **458** 012014 (2013).
- E:** Adolph, C. and others, COMPASS Collaboration: *D^* and D Meson Production in Muon Nucleon Interactions at 160 GeV/c.* *Eur. Phys. J. C* **72** 2253 (2012). CERN-PH-EP-2012-339, [arXiv:1211.1575 \[hep-ex\]](#).
- T:** Kurek, K.: *Understanding the Nucleon’s Spin Structure The Direct Gluon Polarisation Measurement at the COMPASS Experiment.* (2011). CERN-THESIS-2011-273.
- T:** Zvyagin, A.: *D-meson production by muons in the COMPASS experiment at CERN.* (2010). CERN-THESIS-2010-271.
- E:** Luszczak, Marta and Maciula, Rafal and Szczurek, Antoni: *Nonphotonic electrons at RHIC within $k(t)$ -factorization approach and with experimental semileptonic decay functions.* *Phys. Rev. D* **79** 034009 (2009). [arXiv:0807.5044 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish).* [doi:10.2172/969509](#) (2009). [FERMILAB-THESIS-2009-43](#) .
- E:** Klempt, Eberhard and Zaitsev, Alexander: *Glueballs, Hybrids, Multiquarks. Experimental facts versus QCD inspired concepts.* *Phys. Rept.* **454** 1–202 (2007). [arXiv:0708.4016 \[hep-ph\]](#).
- E:** Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI.* *Nucl. Phys. A* **754** 430–442 (2005).
- T:** Carvalho, Fabiana: *A nuvem mesônica, a estranheza e o charme nos hádrons.* (2004).
- E:** Schmitt, L. and Paul, S. and Kuhn, R. and Moinester, M. A.: *Doubly charmed baryons in COMPASS.* (2003). [arXiv:hep-ex/0310049](#).
- E:** Carvalho, F. and Duraes, F. O. and Navarra, F. S. and Nielsen, Marina: *Does the D^+ / D^- production asymmetry decrease at large $x(F)$?* *Phys. Rev. Lett.* **86** 5434–5437 (2001). [arXiv:hep-ph/0009276](#).
- A:** Paul, Stephan: *Strangeness in hadronic interactions.* *Nucl. Phys. A* **663** 74–84 (2000). [arXiv:hep-ph/9909486](#).
- A:** Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías.* *Revista Mexicana de Física* **46** S2 37-38 (2000). UASLP-IF-00-002.
- A:** Engelfried, Jurgen: *Experimental techniques.* *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
25. Jun, S. Y. and others, SELEX Collaboration: *Observation of the Cabibbo Suppressed Decay $\Xi_c^+ \rightarrow pK^- \pi^+$.* *Phys. Rev. Lett.* **84** 1857–1861 (2000). [arXiv:hep-ex/9907062](#).

48 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2022** 083C01 (2022).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2020** 083C01 (2020).
- E:** Li, Y. B. and others, Belle Collaboration: *First measurements of absolute branching fractions of the Ξ_c^+ baryon at Belle.* *Phys. Rev. D* **100** 031101 (2019). KEK Preprint # 2019-3; Belle Preprint # 2019-05, KEK-Preprint-2019-3, Belle-Preprint-2019-05, [arXiv:1904.12093 \[hep-ex\]](#).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Rev. D* **98** 030001 (2018).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **40** 100001 (2016).
- E:** Kats, Yevgeny: *Measuring c -quark polarization in $W+c$ samples at ATLAS and CMS.* *JHEP* **11** 011 (2016). [arXiv:1512.00438 \[hep-ph\]](#).
- T:** Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^+ .* (2016). [FERMILAB-MASTERS-2016-13](#) .
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **38** 090001 (2014).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP).* *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.

- A:** Tarasov, V.V. and Varlamov, P.O.: *Strange Hadron Production in $\Sigma^- A$ Interactions in the SELEX Experiment.* *Bull. Russian Academy of Sciences* **74** 485-463 (2010).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics.* *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish).* doi:10.2172/969509 (2009). FERMILAB-THESIS-2009-43 .
- T:** Vazquez-Jauregui, Eric: *Measurement of Branching Ratios for Non-leptonic Cabibbo-suppressed Decays of the Charmed-Strange Baryon Ξ_c^+ .* doi:10.2172/937240 (2008). FERMILAB-THESIS-2008-40 .
- A:** Vazquez-Jauregui, E. and others, SELEX Collaboration: *First Observation of the Cabibbo-Suppressed Decays $\Xi_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$ and $\Xi_c^+ \rightarrow \Sigma^- \pi^+ \pi^+$ and Measurement of their Branching Ratios.* *Phys. Lett. B* **666** 299-304 (2008). UASLP-IF-08-001, FERMILAB-PUB-08-084-E, arXiv:0804.2298 [hep-ex].
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Lett. B* **667** 1-1340 (2008).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *J. Phys. G* **33** 1-1232 (2006).
- A:** Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons.* eConf C0610161 003 (2006). FERMILAB-CONF-07-029-E, HQL-2006-003, UASLP-IF-07-001, FERMILAB-Conf-07/029-E, arXiv:hep-ex/0702001.
- E:** Aubert, Bernard and others, BaBar Collaboration: *A search for CP violation and a measurement of the relative branching fraction in $D^+ \rightarrow K^- K^+ \pi^+$ decays.* *Phys. Rev. D* **71** 091101 (2005). SLAC-PUB-11009, BABAR-PUB-04-041, arXiv:hep-ex/0501075.
- A:** Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be.* *Phys. Rev. D* **70** 112005 (2004). FERMILAB-PUB-03-279-E.
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Particle Data Group.* *Phys. Lett. B* **592** 1 (2004).
- A:** Engelfried, Jurgen: *Review of recent results in charm physics.* *AIP Conf. Proc.* **722** 79-81 (2004). UASLP-IF-03-008, arXiv:hep-ex/0312038.
- E:** Aubert, Bernard and others, BaBar Collaboration: *$D^+ \rightarrow K^- K^+ \pi^+$ meson decays: A Search for CP violation and a measurement of the branching ratio.* (2004). SLAC-PUB-10675, BABAR-CONF-04-16, BABAR-CONF-04-016, arXiv:hep-ex/0408136.
- T:** Ayan, Ahmet Sedat: *The CMS forward calorimeter prototype design studies and Omega(c)0 search at E781 experiment at Fermilab.* doi:10.2172/875582 (2004). FERMILAB-THESIS-2004-36, UMI-31-26293-MC .
- A:** Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921.* *AIP Conf. Proc.* **670** 395-398 (2003).
- E:** Link, J. M. and others, FOCUS Collaboration: *Measurements of Ξ_c^+ Branching Ratios.* *Phys. Lett. B* **571** 139-147 (2003). FERMILAB-PUB-03-134-E, arXiv:hep-ex/0305038.
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results.* *Nucl. Instrum. Meth. A* **502** 285-288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, arXiv:hep-ex/0208046.
- E:** Bianco, S. and Fabbri, F. L. and Benson, D. and Bigi, I.: *A Cicerone for the physics of charm.* *Riv. Nuovo Cim.* **26** 1-200 (2003). LNF-09-P, UND-HEP-03-BIG06, LNF-09(P), UND-HEP-03-BIG, arXiv:hep-ex/0309021.
- T:** Akgun, Ugur: *CMS HF calorimeter PMTs and Xi(c)+ lifetime measurement.* doi:10.2172/15020228 (2003). UMI-31-14464, FERMILAB-THESIS-2003-43 .
- E:** Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics.* *Particle Data Group.* *Phys. Rev. D* **66** 010001 (2002).
- T:** Medellin Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow p K^- \pi^+$.* doi:10.2172/1155152 (2002). FERMILAB-MASTERS-2002-01 .
- T:** Mattson, Mark Edward: *Search for Baryons with Two Charm Quarks.* doi:10.2172/1420963 (2002). FERMILAB-THESIS-2002-03, UMI-30-43381 .
- A:** Lach, J.: *The experiments and publications from the fixed-target program with the Tevatron.* *Comments Nucl. Part. Phys.* **2** A399-A420 (2002).
- E:** Bracker, Stephen B. and Hansen, Sten: *Description of the Damn Yankee Controller (DYC).* (2002). FERMILAB-PUB-02-393, arXiv:hep-ex/0210034.
- E:** Kutschke, Robert K.: *Charm and beauty physics at Fermilab.* (2001).
- E:** Link, J. M. and others, FOCUS Collaboration: *Measurement of the Relative Branching Ratio $BR(\Xi_c^+ \rightarrow p^+ K^- \pi^+) / BR(\Xi_c^+ \rightarrow \Xi^- \pi^+ \pi^+)$.* *Phys. Lett. B* **512** 277-282 (2001). FERMILAB-PUB-01-025-E, arXiv:hep-ex/0102040.
- E:** Vaandering, Eric W., FOCUS Collaboration: *Recent charmed baryon results from FOCUS.* *AIP Conf. Proc.* **549** 583-587 (2000).
- T:** Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c.* doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .

- E:** Ratti, S. P.: *Charmed baryons photoproduced in FOCUS at Fermilab.* (2000).
- E:** Groom, Donald E. and others, Particle Data Group Collaboration: *Review of particle physics.* Particle Data Group. Eur. Phys. J. C 15 1–878 (2000).
- A:** Morelos Pineda, Antonio: *SELEX.* AIP Conf. Proc. 531 255–258 (2000). UASLP-IF-00-01, [arXiv:hep-ex/0002045](#).
- T:** Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes.* doi:10.2172/1421447 (2000). UMI-30-02781, FERMILAB-THESIS-2000-09 .
- A:** Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías.* Revista Mexicana de Física 46 S2 37-38 (2000). UASLP-IF-00-002.
- A:** Engelfried, Jurgen: *Experimental techniques.* AIP Conf. Proc. 531 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- E:** Appel, Jeffrey A. and Brown, Charles N. and Cooper, Peter S. and White, Herman B. (Eds.): *Symposium in Celebration of the Fixed Target Program with the Tevatron.* (2000). FERMILAB-CONF-01-386, [arXiv:hep-ex/0008076](#).
- E:** Anjos, J. C. and Cuautle, E., Focus Collaboration: *Recent results on charm physics from Fermilab.* AIP Conf. Proc. 531 172–198 (2000). CBPF-NF-026-00, [arXiv:hep-ph/0005057](#).
- E:** Meadows, Brian T., E791 Collaboration: *Experimental results on hadronic c decays.* (1999). [arXiv:hep-ex/0010023](#).
- E:** Bianco, Stefano: *Charm overview.* doi:10.1142/9789812792648%5F0017 (1999). LNF-99-029-P, FRASCATI-REPORT-LNF-99-029-(P), [arXiv:hep-ex/9911034](#).
24. Dersch, U. and others, SELEX Collaboration: *Total Cross Section Measurements with π^- , Σ^- and Protons on Nuclei and Nucleons around 600 GeV/c.* Nucl. Phys. B 579 277–312 (2000). [arXiv:hep-ex/9910052](#).
- 79 Citations:
- E:** Maurin, D. and others: *Precision cross-sections for advancing cosmic-ray physics and other applications: a comprehensive programme for the next decade.* (2025). [arXiv:2503.16173 \[astro-ph.HE\]](#).
- E:** Adhikary, H. and others, NA61/SHINE Collaboration: *Measurement of hadron production in π -C interactions at 158 and 350 GeV/c with NA61/SHINE at the CERN SPS.* Phys. Rev. D 107 062004 (2023). [arXiv:2209.10561 \[nucl-ex\]](#).
- T:** Reininghaus, Maximilian: *The air shower simulation framework CORSIKA 8: Development and first applications to muon production.* doi:10.5445/ir/1000152097 (2022).
- T:** Reininghaus, Maximilian: *The air shower simulation framework CORSIKA 8: Development and first applications to muon production.* doi:10.5445/IR/1000152097 (2022).
- E:** Selyugin, O. V.: *GPDs of hadrons and elastic pion-nucleon scattering.* Phys. Rev. D 104 034001 (2021). [arXiv:2107.02514 \[hep-ph\]](#).
- T:** Sasikumar, Kollassery Swathi: *Photon-Photon processes at the International Linear Collider and BSM signatures with small mass differences.* doi:10.3204/PUBDB-2021-01241 (2020). DESY-THESIS-2021-002.
- E:** Riehn, Felix and Engel, Ralph and Fedynitch, Anatoli and Gaisser, Thomas K. and Stanev, Todor: *Hadronic interaction model Sibyll 2.3d and extensive air showers.* Phys. Rev. D 102 063002 (2020). [arXiv:1912.03300 \[hep-ph\]](#).
- E:** Frankfurt, L. and Guzey, V. and Strikman, M. and Zhalov, M.: *Nuclear shadowing in photoproduction of ρ mesons in ultraperipheral nucleus collisions at RHIC and the LHC.* Phys. Lett. B 752 51–58 (2016). [arXiv:1506.07150 \[hep-ph\]](#).
- T:** Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^+ .* (2016). FERMILAB-MASTERS-2016-13 .
- E:** Khachatryan, Vardan and others, CMS Collaboration: *Measurement of the inelastic cross section in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV.* Phys. Lett. B 759 641–662 (2016). CMS-FSQ-13-006, CERN-PH-EP-2015-210, [arXiv:1509.03893 \[hep-ex\]](#).
- E:** Asratyan, A. E. and Matveev, V. A.: *Search for $\Theta^+(1540)$ emission in hadron-nucleus collisions at 400–700 GeV.* (2016). [arXiv:1608.08523 \[hep-ex\]](#).
- E:** Anisovich, V. V.: *Gribov universality of hadron cross sections at ultrahigh energies.* Int. J. Mod. Phys. A 31 1645010 (2016).
- T:** Baus, Colin: *Measurements in the Forward Phase-Space with the CMS Experiment and their Impact on Physics of Extensive Air Showers.* doi:10.5445/IR/1000050521 (2015). CERN-THESIS-2015-222, 10.5445/IR/1000050521.
- E:** Anisovich, V. V.: *Universality of hadron cross sections at ultrahigh energies.* Phys. Usp. 58 963–967 (2015).
- T:** Reyes Ramos, Rocío: *Estudio de interacciones hadrónicas con $\Lambda^0 \Lambda^0 \gamma \Lambda^0 p \pi^-$ en el estado final.* (2014).
- E:** Kajimoto, T. and others: *Measurements and parameterization of neutron energy spectra from targets bombarded with 120 GeV protons.* Nucl. Instrum. Meth. B 337 68–77 (2014).

- E:** Anisovich, V. V. and Nikonov, K. V. and Nikonov, V. A. and Nyiri, J.: *Proton-proton, pion-proton and pion-pion diffractive collisions at ultrahigh energies*. *Int. J. Mod. Phys. A* **29** 1450096 (2014). [arXiv:1404.0795 \[hep-ph\]](#).
- E:** Unger, M., NA61/SHINE Collaboration: *Results from NA61/SHINE*. *EPJ Web Conf.* **52** 01009 (2013). [arXiv:1305.5281 \[nucl-ex\]](#).
- E:** Ulrich, Ralf, Pierre Auger Collaboration: *Measurement of the proton-air cross-section with the Pierre Auger Observatory*. *EPJ Web Conf.* **53** 07005 (2013).
- E:** Dembinski, Hans: *Measurement of hadron-carbon interactions for better understanding of air showers with NA61/SHINE*. (2013).
- E:** Anisovich, V. V. and Nikonov, V. A. and Nyiri, J.: *Asymptotic regime for hadron-hadron diffractive collisions at ultrahigh energies*. *Phys. Rev. D* **88** 094015 (2013). [arXiv:1310.2839 \[hep-ph\]](#).
- E:** NA61/SHINE Collaboration: *Report from the NA61/SHINE experiment at the CERN SPS*. (2012). CERN-SPSC-2012-029, SPSC-SR-107.
- E:** Ostapchenko, Sergey: *Monte Carlo treatment of hadronic interactions in enhanced Pomeron scheme: I. QGSJET-II model*. *Phys. Rev. D* **83** 014018 (2011). [arXiv:1010.1869 \[hep-ph\]](#).
- E:** Ishida, Muneyuki and Igi, Keiji: *Test of universal rise of hadronic total cross sections based on πp , $K p$, anti- $p p$ and $p p$ scatterings*. *Prog. Theor. Phys. Suppl.* **187** 297–304 (2011).
- T:** Romanov, Dmitry: *Correlation Femtoscopy of Hyperons Produced in Interactions of Hyperons with Nuclei with 600 GeV Energy*. [doi:10.2172/1018732](#) (2010). FERMILAB-THESIS-2010-69 .
- E:** Kopeliovich, B. Z. and Potashnikova, I. K. and Schmidt, Ivan: *Nuclear filtering of intrinsic charm*. *AIP Conf. Proc.* **1296** 231–237 (2010).
- E:** Kopeliovich, B. Z. and Potashnikova, I. K. and Schmidt, Ivan: *Penetrating Intrinsic Charm: Evidence in Data*. (2010). USM-TH-258, [arXiv:1003.3673 \[hep-ph\]](#).
- T:** Geisler, Matthias: *On the Measurement of Atmospheric Muon-Neutrino Oscillations with IceCube-DeepCore*. (2010). Diploma Thesis, Technische Hochschule Aachen.
- E:** Pierog, T. and Werner, K.: *EPOS Model and Ultra High Energy Cosmic Rays*. *Nucl. Phys. B Proc. Suppl.* **196** 102–105 (2009). [arXiv:0905.1198 \[hep-ph\]](#).
- E:** Pierog, Tanguy: *Forward physics: from SPS to LHC, what can we learn from air showers?*. (2009). [arXiv:0906.1459 \[hep-ph\]](#).
- E:** Ishida, Muneyuki and Igi, Keiji: *Test of Universal Rise of Hadronic Total Cross Sections based on πp , $K p$ and anti- $p p, pp$ Scatterings*. *Phys. Rev. D* **79** 096003 (2009). [arXiv:0903.1889 \[hep-ph\]](#).
- E:** Ishida, Muneyuki and Igi, Keiji: *Universal Rise of Hadronic Total Cross Sections based on Forward πp and anti- $p p(pp)$ Scatterings*. *Phys. Lett. B* **670** 395–398 (2009). RIKEN-TH-142, [arXiv:0809.2424 \[hep-ph\]](#).
- T:** Cossavella, Fabiana: *Measurements of high energy cosmic rays above 10 PeV with KASCADE-Grande*. [doi:10.5445/IR/1000012941](#) (2009).
- E:** Bunyatyan, Armen and others: *Introduction*. [doi:10.3204/DESY-PROC-2009-02/3](#) (2009).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- T:** Vazquez-Jauregui, Eric: *Measurement of Branching Ratios for Non-leptonic Cabibbo-suppressed Decays of the Charmed-Strange Baryon Ξ_c^+* . [doi:10.2172/937240](#) (2008). FERMILAB-THESIS-2008-40 .
- E:** Berghaus, P. and Montaruli, T. and Ranft, J.: *Charm Production in DPMJET*. *JCAP* **06** 003 (2008). [arXiv:0712.3089 \[hep-ex\]](#).
- E:** Baltz, A. J. and others: *The Physics of Ultraperipheral Collisions at the LHC*. *Phys. Rept.* **458** 1–171 (2008). [arXiv:0706.3356 \[nucl-ex\]](#).
- E:** Metsa, P.: *Forward analysis of πN scattering with an expansion method*. *Eur. Phys. J. A* **33** 349–353 (2007). HIP-2007-20-TH, [arXiv:0705.4528 \[hep-ph\]](#).
- E:** Ishida, Muneyuki and Igi, Keiji: *Test of the universal rise of hadronic total cross-sections at super-high energies*. *Eur. Phys. J. C* **52** 357–362 (2007). RIKEN-TH-95, [arXiv:hep-ph/0703038](#).
- E:** Igi, K.: *Searching for extremely high-energy behavior from accelerator-energy regions*. *Prog. Theor. Phys. Suppl.* **164** 160–168 (2007). RIKEN-TH-43.
- T:** Sanchez-Lopez, Jose Luis: *Polarization of λ and $\bar{\lambda}$ produced in σ - and proton - nucleon collisions*. (2006). FERMILAB-MASTERS-2006-06 .
- E:** Frankfurt, L. and Strikman, M. and Zhalov, M.: *Elastic and large t rapidity gap vector meson production in ultraperipheral proton-ion collisions*. *Phys. Lett. B* **640** 162–169 (2006). [arXiv:hep-ph/0605160](#).
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). FERMILAB-THESIS-2006-91 .
- A:** Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH*. *Nucl. Instrum. Meth. A* **553** 237–241 (2005). FERMILAB-CONF-05-607-CD.
- E:** Melnitchouk, W. and Ent, R. and Keppel, C.: *Quark-hadron duality in electron scattering*. *Phys. Rept.* **406** 127–301 (2005). JLAB-THY-04-266, [arXiv:hep-ph/0501217](#).

- E: Majewski, M. and Meshcheryakov, D. V. and Meshcheryakov, V. A.: *Dispersion relations and quark gluon structure of hadrons total cross sections*. *Acta Phys. Slov.* 55 65–68 (2005).
- E: Selyugin, Oleg V. and Cudell, J. R. and Predazzi, E.: *Large-distance effects on spin observables at RHIC*. doi:10.1142/9789812701909%5F5F (2004). arXiv:hep-ph/0411371.
- E: Selyugin, Oleg V. and Cudell, J. R.: *Hadron spin flip amplitude: An Analysis of the new $A(N)$ data from RHIC*. *Czech. J. Phys.* 54 B161–B166 (2004). arXiv:hep-ph/0301048.
- A: Molchanov, V. V. and others, SELEX Collaboration: *Upper limit on the decay $\Sigma(1385)^- \rightarrow \Sigma^- \gamma$, and Cross Section for $\gamma \Sigma^- \rightarrow \Lambda \pi^-$* . *Phys. Lett. B* 590 161–169 (2004). FERMILAB-PUB-04-020-E, arXiv:hep-ex/0402026.
- A: Pogodin, P. and others, SELEX Collaboration: *Polarization of Σ^+ Hyperons Produced by 800 GeV/c Protons on Cu and Be*. *Phys. Rev. D* 70 112005 (2004). FERMILAB-PUB-03-279-E.
- E: Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group*. *Phys. Lett. B* 592 1 (2004).
- T: Olivo Gomez, Miguel Angel: *Inclusive Production of Lambda, Anti-Lambda and K(S) in Sigma-, pi+/- and p - Nucleon Collisions*. (2004). FERMILAB-MASTERS-2004-02 .
- E: Donnachie, S. and Dosch, Hans Gunter and Nachtmann, O. and Landshoff, P.: *Pomeron physics and QCD*. (2004).
- E: Cudell, J. R. and Predazzi, E. and Selyugin, Oleg V.: *High-energy hadron spin flip amplitude at small momentum transfer and new $A(N)$ data from RHIC*. *Eur. Phys. J. A* 21 479–486 (2004). arXiv:hep-ph/0401040.
- E: Cudell, J. R. and Predazzi, E. and Selyugin, Oleg V.: *Interactions at large distances and spin effects in nucleon-nucleon and nucleon-nuclei scattering*. *Phys. Part. Nucl.* 35 S75–S78 (2004). arXiv:hep-ph/0312195.
- E: Nicolescu, B. and Selyugin, Oleg V.: *Determination of the structure of the high-energy hadron elastic scattering at small angles*. (2003). arXiv:hep-ph/0312062.
- E: Nicolescu, B. and Selyugin, Oleg V.: *Features of high energy pp elastic scattering at small t*. (2003). arXiv:hep-ph/0306256.
- A: Morelos Pineda, Antonio: *Charm and strange: E761, E781, and E921*. *AIP Conf. Proc.* 670 395–398 (2003).
- E: Majewski, M. and Meshcheryakov, V. A.: *Analyticity and quark gluon structure of hadrons total cross sections*. *Phys. Atom. Nucl.* 66 334–337 (2003). JINR-E2-2001-183.
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* 502 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, arXiv:hep-ex/0208046.
- E: Bourrely, Claude and Soffer, Jacques and Wu, Tai Tsun: *Impact picture phenomenology for $\pi^+ -p$, $K^+ -p$ and pp , $\bar{p}p$ elastic scattering at high-energies*. *Eur. Phys. J. C* 28 97–105 (2003). CPT-2002-P-4429, arXiv:hep-ph/0210264.
- E: Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group*. *Phys. Rev. D* 66 010001 (2002).
- T: Mattson, Mark Edward: *Search for Baryons with Two Charm Quarks*. doi:10.2172/1420963 (2002). FERMILAB-THESIS-2002-03, UMI-30-43381 .
- E: Lach, J.: *The experiments and publications from the fixed-target program with the Tevatron*. *Comments Nucl. Part. Phys.* 2 A399–A420 (2002).
- E: Igi, Keiji and Ishida, Muneyuki: *Investigations of the pi N total cross-sections at high-energies using new FESR: Log(nu) or log**2(nu)*. *Phys. Rev. D* 66 034023 (2002). KNGU-INFO-PH-21, arXiv:hep-ph/0202163.
- E: Gaisser, T. K. and Honda, M.: *Flux of atmospheric neutrinos*. *Ann. Rev. Nucl. Part. Sci.* 52 153–199 (2002). arXiv:hep-ph/0203272.
- E: Cudell, J. R. and Ezhela, V. and Gauron, P. and Kang, K. and Kuyanov, Yu. V. and Lugovsky, S. and Nicolescu, B. and Tkachenko, N.: *Hadronic scattering amplitudes: Medium-energy constraints on asymptotic behavior*. *Phys. Rev. D* 65 074024 (2002). arXiv:hep-ph/0107219.
- A: Molchanov, V. V. and others, SELEX Collaboration: *Radiative Decay Width of the $a_2(1320)^-$ Meson*. *Phys. Lett. B* 521 171–180 (2001). FERMILAB-PUB-01-256-E, IHEP-2001-34, arXiv:hep-ex/0109016.
- A: Gough Eschrich, Ivo M. and others, SELEX Collaboration: *Measurement of the Sigma- Charge Radius by Sigma-Electron Elastic Scattering*. *Phys. Lett. B* 522 233–239 (2001). FERMILAB-PUB-01-118-E, arXiv:hep-ex/0106053.
- A: Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. *Frascati Phys. Ser.* 20 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, arXiv:hep-ex/0012004.
- E: Kang, K. and Cudell, J. R. and Ezhela, V. V. and Gauron, P. and Kuyanov, Yu. V. and Lugovsky, S. B. and Nicolescu, B. and Tkachenko, N. P., COMPETE Collaboration: *Analytic amplitude models for forward scattering*. (2001). BROWN-HET-1296, arXiv:hep-ph/0111360.
- T: Raufeisen, Jorg: *QCD coherence effects in high-energy reactions with nuclei*. (2000). arXiv:hep-ph/0009358.
- A: Morelos Pineda, Antonio: *SELEX*. *AIP Conf. Proc.* 531 255–258 (2000). UASLP-IF-00-01, arXiv:hep-ex/0002045.
- E: Majewski, M. and Meshcheryakov, V. A.: *Analyticity and quark gluon structure of hadrons*. (2000). arXiv:hep-ph/0010168.

- T:** Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes*. doi:10.2172/1421447 (2000). UMI-30-02781, FERMILAB-THESIS-2000-09 .
- A:** Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. Revista Mexicana de Física 46 S2 37-38 (2000). UASLP-IF-00-002.
- E:** Appel, Jeffrey A. and Brown, Charles N. and Cooper, Peter S. and White, Herman B. (Eds.): *Symposium in Celebration of the Fixed Target Program with the Tevatron*. (2000). FERMILAB-CONF-01-386, arXiv:hep-ex/0008076.
- E:** Lipkin, Harry J.: *The New sigma(tot) (Sigma p) data, the new PDG fit to hadron total cross-sections and the TCP alternative*. (1999). TAUP-2600-99, WIS-99-34-DPP, arXiv:hep-ph/9911259.
23. Adamovich, M. I. and others, WA89 Collaboration: *First observation of Sigma- e- elastic scattering in the hyperon beam experiment WA89 at CERN*. Eur. Phys. J. C 8 59–66 (1999).
- 31 Citations:
- E:** Yan, Bing and Chen, Cheng and Xie, Ju-Jun: *Σ and Ξ electromagnetic form factors in the extended vector meson dominance model*. Phys. Rev. D 107 076008 (2023). arXiv:2301.00976 [hep-ph].
- E:** Sharma, Neetika and Dahiya, Harleen: *Charge radii of octet and decuplet baryons in chiral constituent quark model*. Pramana 81 449–465 (2013).
- E:** Sharma, Neetika and Dahiya, Harleen: *Charge Radii and Quadrupole Moments of the Low-Lying Baryons in the Chiral Constituent Quark Model*. Adv. High Energy Phys. 2013 756847 (2013).
- E:** Bartos, E. and Dubnicka, S. and Dubnickova, A. -Z.: *The advanced nucleon electromagnetic structure model and prediction of hyperon electromagnetic form factors*. Nucl. Phys. B Proc. Suppl. 245 78–81 (2013).
- E:** Dahiya, Harleen and Sharma, Neetika: *Electromagnetic form factors of the nucleon in the chiral constituent quark model*. (2011). arXiv:1108.0250 [hep-ph].
- E:** Ciocca, C. and Cuffiani, M. and Giacomelli, G.: *Bose-Einstein correlations in multihadron events at LEP*. eConf C0706044 13 (2007). PARIS-2007-13, arXiv:0712.0668 [hep-ex].
- E:** Buchmann, A. J.: *Structure of strange baryons*. doi:10.1007/978-3-540-76367-3%5F66 (2007). arXiv:0712.4383 [hep-ph].
- T:** Haupt, Christian: *Electromagnetic Properties of Baryons*. (2006). Ph.D. Thesis, Universität Bonn.
- E:** Silva, A. and Urbano, D. and Goeke, K.: *Baryon form factors in the chiral quark-soliton model*. Nucl. Phys. A 755 290–293 (2005).
- E:** Van Cauteren, T. and Corthals, T. and Janssen, S. and Ryckebusch, J. and Merten, D. and Metsch, B. and Petry, H. R.: *Electromagnetic transitions of hyperons in a relativistic quark model*. doi:10.1016/j.nuclphysa.2005.03.055 (2004). arXiv:nucl-th/0407017.
- E:** Van Cauteren, Tim and Merten, Dirk and Corthals, Tamara and Janssen, Stijn and Metsch, Bernard and Petry, Herbert R. and Ryckebusch, Jan: *Electric and magnetic form-factors of strange baryons*. Eur. Phys. J. A 20 283–291 (2004). arXiv:nucl-th/0310058.
- T:** Silva, António: *Form Factors of the Baryon Octet in the Chiral Quark-Soliton Model*. (2004).
- E:** Cheedket, S. and Lyubovitskij, Valery E. and Gutsche, T. and Faessler, Amand and Pumsa-ard, K. and Yan, Y.: *Electromagnetic form-factors of the baryon octet in the perturbative chiral quark model*. Eur. Phys. J. A 20 317–327 (2004). arXiv:hep-ph/0212347.
- E:** Thomas, Anthony William: *Chiral extrapolation of hadronic observables*. Nucl. Phys. B Proc. Suppl. 119 50–58 (2003). ADP-02-82-T521, arXiv:hep-lat/0208023.
- E:** Gough Eschrich, Ivo M. and others, SELEX Collaboration: *Measurement of the Sigma- Charge Radius by Sigma-Electron Elastic Scattering*. Phys. Lett. B 522 233–239 (2001). FERMILAB-PUB-01-118-E, arXiv:hep-ex/0106053.
- A:** Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. Frascati Phys. Ser. 20 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, arXiv:hep-ex/0012004.
- E:** Kubis, Bastian and Meissner, Ulf G.: *Baryon form-factors in chiral perturbation theory*. Eur. Phys. J. C 18 747–756 (2001). FZJ-IKP-TH-2000-25, arXiv:hep-ph/0010283.
- T:** Vorwalter, Klaus: *Determination of the pion charge radius with a silicon microstrip detector system*. doi:10.2172/1421419 (2000). FERMILAB-THESIS-2000-45 .
- E:** Simon, J., SELEX Collaboration: *Measurement of the Sigma- charge radius in the SELEX experiment*. Nucl. Phys. A 663 691–694 (2000).
- T:** Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c*. doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .
- A:** Paul, Stephan: *Strangeness in hadronic interactions*. Nucl. Phys. A 663 74–84 (2000). arXiv:hep-ph/9909486.
- E:** Meissner, Ulf-G.: *Baryon form-factors: Model independent results*. Nucl. Phys. A 666 51–60 (2000). FZJ-IKP-TH-1999-18, arXiv:hep-ph/9907323.

- T:** Krueger, Henning: *Investigation of elastic hadron electron scattering at 540 GeV/c in order to measure the electromagnetic charge radius of the proton.* doi:10.2172/1421421 (2000). FERMILAB-THESIS-2000-43 .
- E:** Hackett-Jones, Emily J. and Leinweber, Derek Bruce and Thomas, Anthony William: *Incorporating chiral symmetry and heavy quark theory in extrapolations of octet baryon charge radii.* Phys. Lett. B 494 89–99 (2000). arXiv:hep-lat/0008018.
- A:** Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías.* Revista Mexicana de Física 46 S2 37-38 (2000). UASLP-IF-00-002.
- A:** Engelfried, Jurgen: *Experimental techniques.* AIP Conf. Proc. 531 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- E:** Gough Eschrich, Ivo M. and others, SELEX Collaboration: *Hyperon physics results from SELEX.* AIP Conf. Proc. 459 303–313 (1999). FERMILAB-CONF-98-451-T, arXiv:hep-ex/9812019.
- A:** Povh, B.: *Hyperon radii.* (1999). arXiv:hep-ph/9908233.
- A:** Paul, Stephan: *Heavy baryons: Different facets of experimental results.* (1999). arXiv:hep-ph/9903311.
- E:** Kubis, B. and Hemmert, T. R. and Meissner, Ulf-G.: *Baryon form-factors.* Phys. Lett. B 456 240–247 (1999). FZJ-IKP-TH-1999-07, arXiv:hep-ph/9903285.
- T:** Gough Eschrich, Ivo M.: *Measurement of the sigma- charge radius at the Fermilab Hyperon beam..* doi:10.2172/1421522 (1998). FERMILAB-THESIS-1998-62 .
22. Adamovich, M. I. and others, WA89 Collaboration: *Production of Xi* resonances in Sigma- induced reactions at 345-GeV/c.* Eur. Phys. J. C 11 271–278 (1999). arXiv:hep-ex/9907021.

39 Citations:

- E:** Li, S. X. and Ping, R. G. and Shen, C. P.: *Monte Carlo simulation-based partial wave analysis of $\Xi_{c+} \rightarrow \Xi \pi^+ \pi^+$ decay.* Phys. Rev. D 111 074039 (2025). arXiv:2502.20746 [hep-ph].
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* Phys. Rev. D 110 030001 (2024).
- E:** Crede, Volker and Yelton, John: *70 years of hyperon spectroscopy: a review of strange Ξ , Ω baryons, and the spectrum of charmed and bottom baryons.* Rept. Prog. Phys. 87 106301 (2024). arXiv:2502.08815 [hep-ex].
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* PTEP 2022 083C01 (2022).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* PTEP 2020 083C01 (2020).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* Phys. Rev. D 98 030001 (2018).
- E:** Aliev, T. M. and Azizi, K. and Sundu, H.: *Radial Excitations of the Decuplet Baryons.* Eur. Phys. J. C 77 222 (2017). arXiv:1612.03661 [hep-ph].
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics.* Chin. Phys. C 40 100001 (2016).
- E:** Oh, Yongseok: *Spectrum and Quantum Numbers of Ξ Resonances.* (2016).
- E:** Amaryan, M. and Chudakov, E. and Meyer, C. and Pennington, M. and Ritman, J. and Strakovsky, I. (Eds.): *Mini-Proceedings: Workshop on Physics with Neutral Kaon Beam at JLab (KL2016): Newport News, VA, USA, February 1-3, 2016.* (2016). arXiv:1604.02141 [hep-ph].
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* Chin. Phys. C 38 090001 (2014).
- E:** Xiao, Li-Ye and Zhong, Xian-Hui: *Ξ baryon strong decays in a chiral quark model.* Phys. Rev. D 87 094002 (2013). arXiv:1302.0079 [hep-ph].
- E:** Pavon Valderrama, M. and Xie, Ju-Jun and Nieves, J.: *Are there three Xi(1950) states?.* Phys. Rev. D 85 017502 (2012). arXiv:1111.2218 [hep-ph].
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP).* Phys. Rev. D 86 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics.* J. Phys. G 37 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Lutz, M. F. M. and others, PANDA Collaboration: *Physics Performance Report for PANDA: Strong Interaction Studies with Antiprotons.* (2009). arXiv:0903.3905 [hep-ex].
- A:** Siebert, H. W.: *The challenge of correlations in hadronic production of $V_0 V_0$ pairs.* Eur. Phys. J. ST 162 155–159 (2008).
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics.* Phys. Lett. B 667 1–1340 (2008).
- E:** Oh, Yongseok: *Xi and Omega baryons in the Skyrme model.* Phys. Rev. D 75 074002 (2007). arXiv:hep-ph/0702126.

- E: Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E: Nakayama, K. and Oh, Yongseok and Habermann, H.: *Photoproduction of Xi off nucleons*. *Phys. Rev. C* **74** 035205 (2006). [arXiv:hep-ph/0605169](#).
- E: Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. *Nucl. Phys. A* **754** 430–442 (2005).
- E: Airapetian, A. and others, HERMES Collaboration: *Search for an exotic $S = -2$, $Q = -2$ baryon resonance at a mass near 1862-MeV in quasi-real photoproduction*. *Phys. Rev. D* **71** 032004 (2005). DESY-04-239, [arXiv:hep-ex/0412027](#).
- E: Ageev, E. S. and others, COMPASS Collaboration: *Search for the $\Phi(1860)$ pentaquark at COMPASS*. *Eur. Phys. J. C* **41** 469–474 (2005). DAPNIA-05-29, CERN-PH-EP-2005-009, [arXiv:hep-ex/0503033](#).
- E: Airapetian, A., HERMES Collaboration: *Pentaquark searches at HERMES*. *AIP Conf. Proc.* **792** 677–680 (2005).
- E: Airapetian, A., HERMES Collaboration: *Pentaquarks search at HERMES*. *Acta Phys. Polon. B* **36** 2213–2222 (2005).
- A: Adamovich, M. I. and others, WA99 Collaboration: *Search for the exotic $\Xi(1860)$ resonance in 340-GeV/c Sigma-nucleus interactions*. *Phys. Rev. C* **70** 022201 (2004). [arXiv:hep-ex/0405042](#).
- A: Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work*. (2004). [arXiv:hep-ex/0406077](#).
- E: Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).
- T: Giordano, Francesca: *Search for heavy exotic states $\Xi(3/2) \rightarrow p \pi^- \pi^- \pi^+$ and $\Xi(3/2) \rightarrow p \pi^- \pi^- \pi^-$ with the HERMES spectrometer*. (2004). DESY-HERMES-04-55.
- E: Fischer, H. G. and Wenig, S.: *Are there $S = -2$ pentaquarks?*. *Eur. Phys. J. C* **37** 133–140 (2004). [arXiv:hep-ex/0401014](#).
- T: De Masi, Rita: *Development of a cryogenic silicon detector system and study of strange particle production in deep inelastic scattering*. (2004). CERN-THESIS-2009-086.
- A: Alexandrov, Yu., WA99 Collaboration: *A MEASUREMENT OF A POLARIZATION IN INCLUSIVE PRODUCTION BY Σ^- 340 GeV/c IN C AND Cu TARGETS*. (2004).
- E: Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Rev. D* **66** 010001 (2002).
- A: Adamovich, M. I. and others, WA99 Collaboration: *A measurement of K^{*+} production in the hyperon beam experiment at CERN*. *Eur. Phys. J. C* **22** 47–54 (2001).
- A: Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. *Frascati Phys. Ser.* **20** 217–228 (2001). UASLP-IF-00-05, FERMI-CONF-00-309-E, [arXiv:hep-ex/0012004](#).
- E: Groom, Donald E. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Eur. Phys. J. C* **15** 1–878 (2000).
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* **46** S2 37–38 (2000). UASLP-IF-00-002.
- A: Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
21. Adamovich, M. I. and others, WA99 Collaboration: *Charge asymmetries for D , $D(s)$ and $\Lambda(b)$ production in Sigma- nucleus interactions at 340-GeV/c*. *Eur. Phys. J. C* **8** 593–601 (1999). [arXiv:hep-ex/9803021](#).

68 Citations:

- E: Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons*. *JHEP* **02** 140 (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- E: Altmann, J. and Dubla, A. and Greco, V. and Rossi, A. and Skands, P.: *Towards the understanding of heavy quarks hadronization: from leptonic to heavy-ion collisions*. *Eur. Phys. J. C* **85** 16 (2025). [arXiv:2405.19137 \[hep-ph\]](#).
- E: Beraudo, Andrea and De Pace, Arturo and Monteno, Marco and Nardi, Marzia and Prino, Francesco: *In-medium hadronization of heavy quarks and its effect on charmed meson and baryon distributions in heavy-ion collisions*. *Eur. Phys. J. C* **82** 607 (2022). [arXiv:2202.08732 \[hep-ph\]](#).
- E: Maciula, Rafal and Szczurek, Antoni: *D meson production asymmetry, unfavored fragmentation, and consequences for prompt atmospheric neutrino production*. *Phys. Rev. D* **97** 074001 (2018). [arXiv:1711.08616 \[hep-ph\]](#).
- T: Lai, Wai Kin: *Applications of Effective Theories of QCD in Collider Physics*. (2017).
- E: Lai, Wai Kin and Leibovich, Adam K.: Λ_c^+/Λ_c^- and $\Lambda_b^0/\bar{\Lambda}_b^0$ production asymmetry at the LHC from heavy quark recombination. *Phys. Rev. D* **91** 054022 (2015). [arXiv:1410.2091 \[hep-ph\]](#).
- E: Lai, Wai Kin and Leibovich, Adam K. and Petrov, Alexey A.: D^\pm production asymmetry at the LHC from heavy quark recombination. *Phys. Rev. D* **90** 054022 (2014). [arXiv:1408.2843 \[hep-ph\]](#).

- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *On the energy dependence of the D^+ / D^- production asymmetry*. *Phys. Lett. B* **724** 108–114 (2013). [arXiv:1302.0035 \[hep-ph\]](#).
- E:** Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *Charm production asymmetry at the LHC*. *J. Phys. Conf. Ser.* **458** 012014 (2013).
- E:** Luszczak, Marta and Maciula, Rafal and Szczurek, Antoni: *Nonphotonic electrons at RHIC within $k(t)$ -factorization approach and with experimental semileptonic decay functions*. *Phys. Rev. D* **79** 034009 (2009). [arXiv:0807.5044 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. doi:10.2172/969509 (2009). FERMILAB-THESIS-2009-43 .
- T:** Berezhnoy, Alexander: *Violation of factorization in the production of heavy hadrons*. (2009).
- E:** Goswami, Umananda Dev: *Charmed hadron production in $p p$ collision*. *Astropart. Phys.* **28** 251–261 (2007).
- E:** Gao, Puze and Ma, Bo-Qiang: *The Leading particle effect from light quark fragmentation in charm hadroproduction*. *Eur. Phys. J. C* **50** 603–608 (2007). [arXiv:hep-ph/0703133](#).
- E:** Berezhnoy, A. V. and Likhoded, A. K.: *Charge asymmetry in the photonic production of charmed mesons*. *Phys. Atom. Nucl.* **69** 103–112 (2006). [arXiv:hep-ph/0506124](#).
- T:** Slabospitsky, Sergei Rostislavovich: *Single phenomenological approach to describing the processes of hadrons with heavy quarks at high energies*. (2005).
- E:** Goswami, U. D. and Boruah, K: *Asymmetry in charmed hadron production in pp collisions*. (2005).
- E:** Tashiro, Tsutomu and Nakariki, Shin-ichi and Noda, Hujio and Kinoshita, Kisei and Lan, Shu-xin: *Leading effects in hadroproductions of Λ (c) and D from constituent quark - diquark cascade picture*. *Int. J. Mod. Phys. A* **19** 599–612 (2004). [arXiv:hep-ph/0307387](#).
- E:** Mehen, Thomas: *Recent developments in heavy quark and quarkonium production*. *Acta Phys. Polon. B* **35** 121–130 (2004). JLAB-THY-03-222, [arXiv:hep-ph/0312239](#).
- E:** Mehen, Thomas: *Quark matter: charm production asymmetries from heavy-quark recombination*. *J. Phys. G* **30** S295–S304 (2004).
- E:** Mehen, Thomas: *Charm production asymmetries from heavy quark recombination*. *AIP Conf. Proc.* **698** 508–512 (2004). [arXiv:hep-ph/0306178](#).
- T:** Carvalho, Fabiana: *A nuvem mesônica, a estranheza e o charme nos hádrons*. (2004).
- E:** Braaten, Eric and Kusunoki, Masaoki and Jia, Yu and Mehen, Thomas: *Λ (c) / Λ (c) asymmetry in hadroproduction from heavy quark recombination*. *Phys. Rev. D* **70** 054021 (2004). JLAB-PHY-03-232, [arXiv:hep-ph/0304280](#).
- E:** Vogt, R. and Gutierrez, T. D.: *Ξ - and ω distributions in hadron nucleus interactions*. *Nucl. Phys. A* **726** 134–156 (2003). LBNL-52160, [arXiv:hep-ph/0302109](#).
- E:** Kaya, M and others, SELEX Collaboration: *Production Asymmetry of D_s from 600-GeV/c Σ^- and π^- Beam*. *Phys. Lett. B* **558** 34–40 (2003). FERMILAB-PUB-03-026-E, [arXiv:hep-ex/0302039](#).
- E:** Piskounova, O.: *Leading effects in the spectra of Λ (c) and anti- Λ (c) produced in π - p interactions*. (2003).
- E:** Piskounova, Olga I.: *Leading effects in the spectra of Λ (c) and anti- Λ (c) produced in Σ - p , pp and π - p interactions*. *Phys. Atom. Nucl.* **66** 307–312 (2003). [arXiv:hep-ph/0202005](#).
- E:** Jia, Yu: *Anomalous three jet and heavy quark fragmentation*. (2003). [arXiv:hep-ph/0305172](#).
- E:** Iori, M., SELEX Collaboration: *Selex results on D/s^{+-} , D^{+-} , D^{*+-} and $D0$ / anti- $D0$ production*. *Nucl. Phys. B Proc. Suppl.* **115** 103–106 (2003).
- T:** Cheedket, Sampart: *ELECTROMAGNETIC FORM FACTORS OF THE BARYON OCTET IN THE PERTURBATIVE CHIRAL QUARK MODEL*. (2003). Ph.D. Thesis, Suranaree University of Technology.
- E:** Chang, Chao-Hsi and Ma, Jian-Ping and Si, Zong-Guo: *A QCD analysis of quark recombination for leading particle effect*. *Phys. Rev. D* **68** 014018 (2003). AS-ITP-2003-002, [arXiv:hep-ph/0301253](#).
- E:** Garcia, F. G. and others, SELEX Collaboration: *Hadronic Production of Λ_c from 600-GeV/c π^- , Σ^- and p Beams*. *Phys. Lett. B* **528** 49–57 (2002). FERMILAB-PUB-01-258-E, [arXiv:hep-ex/0109017](#).
- E:** Likhoded, A. K. and Slabospitsky, S. R.: *Asymmetry in charmed particles production in Σ -beam*. *Phys. Atom. Nucl.* **65** 127–134 (2002). [arXiv:hep-ph/0008230](#).
- E:** Gutierrez, T. D. and Vogt, R.: *Asymmetries between strange and anti-strange particle production in hadron proton interactions*. *Nucl. Phys. A* **705** 396–432 (2002). LBNL-47715, [arXiv:hep-ph/0107044](#).
- E:** Braaten, Eric and Jia, Yu and Mehen, Thomas: *The Leading particle effect from heavy quark recombination*. *Phys. Rev. Lett.* **89** 122002 (2002). JLAB-PHY-02-17, [arXiv:hep-ph/0205149](#).
- A:** Adamovich, M. I. and others: *Spectra and correlations of λ and λ produced in 340-GeV/c $\Sigma^- + C$ and 260-GeV/c $n+c$ interactions*. *Phys. Rev. C* **65** 042202 (2002).
- A:** Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. *Frascati Phys. Ser.* **20** 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, [arXiv:hep-ex/0012004](#).
- E:** Iori, M. and others, SELEX Collaboration: *Recent results from SELEX*. *Nucl. Phys. B Proc. Suppl.* **93** 109–112 (2001). FERMILAB-CONF-00-391-E, [arXiv:hep-ex/0009049](#).

- E: Piskunova, O. I.: *Leading/nonleading charm-production asymmetry in Sigma- p interactions*. *Phys. Atom. Nucl.* **64** 98–102 (2001).
- E: Piskounova, O. I.: *On the character of leading asymmetry in the hadroproduction of charmed mesons and baryons*. *Nucl. Phys. B Proc. Suppl.* **93** 144–147 (2001). [arXiv:hep-ph/0010263](#).
- E: Piskounova, O. I.: *B meson hadroproduction cross-sections and up to date models*. *Phys. Atom. Nucl.* **64** 392 (2001). [arXiv:hep-ph/0001252](#).
- E: Iori, M.: *QFTPHEP: charm hadroproduction at Selex*. (2001).
- E: Carvalho, F. and Duraes, F. O. and Navarra, F. S. and Nielsen, Marina: *Does the D+ / D- production asymmetry decrease at large x(F)?*. *Phys. Rev. Lett.* **86** 5434–5437 (2001). [arXiv:hep-ph/0009276](#).
- A: Adamovich, M. I. and others, WA89 Collaboration: *Determination of the total c anti-c production cross-section in 340-GeV/c sigma- nucleus interactions*. *Eur. Phys. J. C* **13** 247–254 (2000). [arXiv:hep-ex/9908061](#).
- E: Vogt, R.: *Charm hadroproduction*. *AIP Conf. Proc.* **531** 152–171 (2000).
- A: Paul, Stephan: *Strangeness in hadronic interactions*. *Nucl. Phys. A* **663** 74–84 (2000). [arXiv:hep-ph/9909486](#).
- T: Kaya, Mithat: *D(s) charm strange meson production and asymmetry*. [doi:10.2172/1421433](#) (2000). [FERMILAB-THESIS-2000-37, UMI-99-96115](#).
- T: Gutierrez, Thomas Dominic: *Higher twist contributions to charm and light gluino production*. (2000). [UMI-99-80501](#).
- T: Garcia, Fernanda G.: *Hadroproduction of the Λ_c Charmed Baryon by the SELEX-E781 Experiment*. [doi:10.2172/1421474](#) (2000). [FERMILAB-THESIS-2000-40](#).
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* **46** S2 37–38 (2000). [UASLP-IF-00-002](#).
- A: Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). [UASLP-IF-99-01](#), [arXiv:hep-ex/9912036](#).
- A: Thilmann, O., WA89 Collaboration: *Total charm production cross-section and production asymmetries in 340-GeV/c Sigma- nucleus interactions*. *Nucl. Phys. B Proc. Suppl.* **75** 129–132 (1999).
- A: Siebert, H. W., WA89 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam*. *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- E: Iori, M. and others, SELEX Collaboration: *Charm hadroproduction results from SELEX*. (1999). [FERMILAB-CONF-99-399-E](#), [arXiv:hep-ex/9910039](#).
- E: Russ, J. S.: *Recent charm hadroproduction results from fixed target experiments*. *8th International Symposium on Heavy Flavour Physics. Proceedings of Science* **hf8** 045 (1999).
- A: Paul, Stephan: *Heavy baryons: Different facets of experimental results*. (1999). [arXiv:hep-ph/9903311](#).
- A: Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- E: Kushnirenko, A. Y., SELEX Collaboration: *Charm physics results from SELEX*. *AIP Conf. Proc.* **459** 168–178 (1999).
- E: Iori, M., SELEX Collaboration: *First results from the SELEX Collaboration*. *Nucl. Phys. B Proc. Suppl.* **75** 16–19 (1999).
- E: Gutierrez, T. and Vogt, R.: *Leading charm in hadron nucleus interactions in the intrinsic charm model*. *Nucl. Phys. B* **539** 189–214 (1999). [LBL-42004, LBNL-42004](#), [arXiv:hep-ph/9808213](#).
- E: Garcia, Fernanda G. and Jun, Soon Yung, SELEX Collaboration: *First charm baryon physics from SELEX (E781)*. (1999). [FERMILAB-CONF-99-070-E](#), [arXiv:hep-ex/9905003](#).
- E: Aitala, E. M and others, E791 Collaboration: *Total forward and differential cross-sections of neutral D mesons produced in 500-GeV/c pi- nucleon interactions*. *Phys. Lett. B* **462** 225–236 (1999). [FERMILAB-PUB-99-185-E](#), [arXiv:hep-ex/9906034](#).
- E: Arakelian, G. H. and Eremian, Sh. S.: *Inclusive hadroproduction of D(s) mesons in the quark gluon string model*. *Phys. Atom. Nucl.* **62** 1724–1728 (1999).
- E: Arakelian, G. H.: *Hadroproduction of particle with open charm*. (1999). [arXiv:hep-ph/9906544](#).
- T: Zacarias, Galileo Dominguez: *Angular distribution of $K_s^0 \rightarrow \pi^+\pi^-$ in E781*. (1998). [FERMILAB-MASTERS-1998-04](#).
- E: Russ, J. and others, SELEX Collaboration: *First charm hadroproduction results from SELEX*. (1998). [CMU-HEP-98-07, DOE-ER-40682-103, FERMILAB-CONF-98-456-A](#), [arXiv:hep-ex/9812031](#).
- E: Piskounova, O. I.: *Leading / nonleading charm production asymmetry in Sigma- p interactions*. (1998). [arXiv:hep-ph/9904208](#).
- E: Arakelian, G. H. and Yeremian, S. S.: *D(s) - mesons inclusive hadroproduction in the quark gluon string model*. (1998). [JINR-E2-98-236](#), [arXiv:hep-ph/9808325](#).

20. Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L., SELEX Collaboration: *The SELEX Phototube RICH Detector*. *Nucl. Instrum. Meth. A* 431 53–69 (1999). [arXiv:hep-ex/9811001](#).

83 Citations:

- E:** Forty, Roger: *Collider experiments: the LHC and beyond*. *CERN Yellow Rep. School Proc.* 2 197–286 (2025).
- E:** He, Rui and others: *Advances in nuclear detection and readout techniques*. *Nucl. Sci. Tech.* 34 205 (2023).
- A:** Engelfried, Jürgen: *Handbook of Particle Detection and Imaging, 2.edition*. [doi:10.1007/978-3-319-93785-4%5F6](#) (2021).
- E:** Wong, C. P. and others: *Modular focusing ring imaging Cherenkov detector for electron–ion collider experiments*. *Nucl. Instrum. Meth. A* 871 13–19 (2017).
- A:** Nigmatkulov, G. A. and others, SELEX Collaboration: *The Transverse Momentum Dependence of Charged Kaon Bose–Einstein Correlations in the SELEX Experiment*. *Phys. Lett. B* 753 458–464 (2016). FERMILAB-PUB-15-054-PPD, [arXiv:1501.04316 \[hep-ex\]](#).
- T:** Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^+* . (2016). FERMILAB-MASTERS-2016-13 .
- E:** Asratyan, A. E. and Matveev, V. A.: *Search for $\Theta^+(1540)$ emission in hadron–nucleus collisions at 400–700 GeV*. (2016). [arXiv:1608.08523 \[hep-ex\]](#).
- T:** Mahajan, Sonam: *A Study of Particle Production in Proton Induced Collisions Using the MIPP Detector at Fermilab*. [doi:10.2172/1248343](#) (2015). FERMILAB-THESIS-2015-36 .
- T:** Mahajan, Sonam: *A study of particle production in proton induced collisions using the MIPP detector at Fermilab*. (2015). FERMILAB-THESIS-2015-45 .
- E:** Denisov, S. P.: *Use of Cherenkov counters in experiments at accelerators for particle identification*. *Phys. Usp.* 58 480–485 (2015).
- E:** Paley, J. M. and others, MIPP Collaboration: *Measurement of Charged Pion Production Yields off the NuMI Target*. *Phys. Rev. D* 90 032001 (2014). FERMILAB-PUB-14-110-E, [arXiv:1404.5882 \[hep-ex\]](#).
- E:** Anzivino, G. and others: *Studies of the effects of CO₂ contamination of the neon gas radiator on the performance of the NA62 RICH Detector*. *IEEE Trans. Nucl. Sci.* 60 265–269 (2013).
- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* 639 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- A:** Cooper, Peter S. and Engelfried, Jurgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* 639 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171 \[physics.ins-det\]](#).
- E:** Abbon, P. and others: *Particle identification with COMPASS RICH-1*. *Nucl. Instrum. Meth. A* 631 26–39 (2011).
- A:** Tarasov, V.V. and Varlamov, P.O.: *Strange Hadron Production in $\Sigma^- A$ Interactions in the SELEX Experiment*. *Bull. Russian Academy of Sciences* 74 485–463 (2010).
- T:** Rocco, Elena: *Development of a gaseous photon detector for Cherenkov imaging applications*. (2010). CERN-THESIS-2010-053.
- E:** Graf, N. and others, MIPP Collaboration: *Charged Kaon Mass Measurement using the Cherenkov Effect*. *Nucl. Instrum. Meth. A* 615 27–32 (2010). FERMILAB-PUB-09-413-E, [arXiv:0909.0971 \[hep-ex\]](#).
- A:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* 64 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- E:** Lenti, M.: *The NA62 RICH detector*. *Nucl. Phys. B Proc. Suppl.* 197 117–120 (2009).
- T:** Gunaydin, Yusuf Oguzhan: *Cross Section Measurements In The Main Injector Particle Production (Fnal-E907) Experiment At 58 Gev Energy*. [doi:10.2172/1023970](#) (2009). FERMILAB-THESIS-2009-65 .
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish)*. [doi:10.2172/969509](#) (2009). FERMILAB-THESIS-2009-43 .
- T:** Vazquez-Jauregui, Eric: *Measurement of Branching Ratios for Non-leptonic Cabibbo-suppressed Decays of the Charmed-Strange Baryon Ξ_c^+* . [doi:10.2172/937240](#) (2008). FERMILAB-THESIS-2008-40 .
- A:** Vazquez-Jauregui, E. and others, SELEX Collaboration: *First Observation of the Cabibbo-Suppressed Decays $\Xi_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$ and $\Xi_c^+ \rightarrow \Sigma^- \pi^+ \pi^+$ and Measurement of their Branching Ratios*. *Phys. Lett. B* 666 299–304 (2008). UASLP-IF-08-001, FERMILAB-PUB-08-084-E, [arXiv:0804.2298 \[hep-ex\]](#).
- T:** Lopez-Hinojosa, Guillermo: *Determinación de la razón de decaimiento de $\Lambda_c^+ \rightarrow p \pi^+ \pi^-$* . [doi:10.2172/928099](#) (2008). FERMILAB-MASTERS-2008-02 .
- T:** Graf, Nicholas J.: *Measurement of the charged kaon mass with the MIPP RICH*. [doi:10.2172/961939](#) (2008). FERMILAB-THESIS-2008-87 .
- E:** Anzivino, G. and others: *Construction and test of a RICH prototype for the NA62 experiment*. *Nucl. Instrum. Meth. A* 593 314–318 (2008).
- T:** Seun, Sin Man: *Measurement of $\pi - K$ ratios from the NuMI target*. [doi:10.2172/935004](#) (2007). FERMILAB-THESIS-2007-61 .

- A: Sanchez-Lopez, J. L. and others, SELEX Collaboration: *Polarization of Λ^0 and $\bar{\Lambda}^0$ inclusively produced by 610-GeV/c Σ^- and 525-GeV/c proton beams.* (2007). FERMILAB-PUB-07-312-E, UASLP-IF-07-003, [arXiv:0706.3660 \[hep-ex\]](#).
- A: Iori, M. and others, SELEX Collaboration: *Measurement of the Ω_c^0 Lifetime.* (2007). FERMILAB-PUB-07-011-E, [arXiv:hep-ex/0701021](#).
- E: Raja, Rajendran: *Possibilities of new data in hadroproduction.* *AIP Conf. Proc.* **896** 225–234 (2007). FERMILAB-CONF-07-511-E.
- E: Lenti, M.: *A magnetic spectrometer RICH.* *Nucl. Instrum. Meth. A* **574** 251–254 (2007).
- T: Lebedev, Andrey V.: *Ratio of pion kaon production in proton carbon interactions.* [doi:10.2172/948174](#) (2007). [FERMILAB-THESIS-2007-76](#).
- T: Sanchez-Lopez, Jose Luis: *Polarization of λ and $\bar{\lambda}$ produced in σ - and proton - nucleon collisions.* (2006). [FERMILAB-MASTERS-2006-06](#).
- E: Raja, R.: *The main injector particle production experiment at Fermilab.* *Pramana* **67** 951–960 (2006).
- T: Flores Castillo, Angel de Jesus: *Search for Baryon resonances in the experiment SELEX E781.* [doi:10.2172/1155155](#) (2006). [FERMILAB-MASTERS-2006-09](#).
- A: Engelfried, Jurgen: *Ring imaging Cherenkov detectors.* *AIP Conf. Proc.* **857** 340–346 (2006).
- E: Denisov, S.P. and Stoyanova, D.A.: *Cherenkov Counters in experiments at IHEP accelerator.* *Radiation Physics and Chemistry* **75** 856–861 (2006).
- E: Bonesini, M. and Guglielmi, A.: *Hadroproduction experiments for precise neutrino beam calculations.* *Phys. Rept.* **433** 65–126 (2006).
- A: Blanco-Covarrubias, A. and Engelfried, J., SELEX Collaboration: *Search of the exotic state $U(3100)$ in SELEX.* *J. Phys. Conf. Ser.* **37** 11–15 (2006).
- A: Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon Ξ_{cc}^+ (3520) via its Decay to pD^+K^- .* *Phys. Lett. B* **628** 18–24 (2005). FERMILAB-PUB-04-082-E, [arXiv:hep-ex/0406033](#).
- E: Raja, Rajendran: *The Main injector particle production experiment (MIPP) at Fermilab.* *J. Phys. Conf. Ser.* **9** 303–308 (2005). [arXiv:hep-ex/0501005](#).
- A: Morelos Pineda, Antonio and Mata, J. and Cooper, P. S. and Engelfried, J. and Aguilera-Servin, J. L.: *Radial tail resolution in the SELEX RICH.* *Nucl. Instrum. Meth. A* **553** 237–241 (2005). FERMILAB-CONF-05-607-CD.
- A: Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons.* *Nucl. Phys. A* **752** 121–128 (2005).
- A: Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam.* *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
- E: Brambilla, N. and others, Quarkonium Working Group Collaboration: *Heavy Quarkonium Physics.* [doi:10.5170/CERN-2005-005](#) (2004). CERN-2005-005, CERN-2005-005, [arXiv:hep-ph/0412158](#).
- T: Olivo Gomez, Miguel Angel: *Inclusive Production of Λ , Anti- Λ and $K(S)$ in Σ -, $\pi^+/-$ and p - Nucleon Collisions.* (2004). [FERMILAB-MASTERS-2004-02](#).
- T: Ayan, Ahmet Sedat: *The CMS forward calorimeter prototype design studies and $\Omega(c)0$ search at E781 experiment at Fermilab.* [doi:10.2172/875582](#) (2004). [FERMILAB-THESIS-2004-36](#), [UMI-31-26293-MC](#).
- A: Kaya, M and others, SELEX Collaboration: *Production Asymmetry of D_s from 600-GeV/c Σ^- and π^- Beam.* *Phys. Lett. B* **558** 34–40 (2003). FERMILAB-PUB-03-026-E, [arXiv:hep-ex/0302039](#).
- A: Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons.* *Czech. J. Phys.* **53** B201–B213 (2003). FERMILAB-CONF-02-380-E, [arXiv:hep-ex/0212029](#).
- A: Russ, J. S., SELEX Collaboration: *First Observation of a Family of Double Charm Baryons.* *Frascati Phys. Ser.* **31** 25–28 (2003). FERMILAB-CONF-02-236-E, [arXiv:hep-ex/0209075](#).
- A: Engelfried, Jurgen: *Instrumentation.* (2003). UASLP-IF-03-007, [arXiv:physics/0312061](#).
- A: Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment.* *Nucl. Instrum. Meth. A* **502** 62–66 (2003). FERMILAB-CONF-02-192-E, UASLP-IF-02-008, [arXiv:hep-ex/0209020](#).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovskiy, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results.* *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- A: Torres, Ibrahim and Engelfried, Jurgen and Morelos Pineda, Antonio: *Simulation of a RICH detector for the CKM experiment.* (2002). UASLP-IF-02-001, [arXiv:hep-ex/0202002](#).
- A: Mattson, M. and others, SELEX Collaboration: *First Observation of the Doubly Charmed Baryon Ξ_{cc}^+ .* *Phys. Rev. Lett.* **89** 112001 (2002). FERMILAB-PUB-02-183-E, [arXiv:hep-ex/0208014](#).
- A: Garcia, F. G. and others, SELEX Collaboration: *Hadronic Production of Λ_c from 600-GeV/c π^- , Σ^- and p Beams.* *Phys. Lett. B* **528** 49–57 (2002). FERMILAB-PUB-01-258-E, [arXiv:hep-ex/0109017](#).

- T:** Medellín Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^-\pi^+$* . doi:10.2172/1155152 (2002). FERMILAB-MASTERS-2002-01 .
- A:** Medellín Zapata, Juan and Engelfried, Jurgen and Morelos Pineda, Antonio, SELEX Collaboration: *Resonances in $\Lambda_{b,c} \rightarrow pK^-\pi^+$* . AIP Conf. Proc. 623 285–288 (2002). UASLP-IF-02-002, arXiv:hep-ex/0202003.
- E:** Chudakov, E.: *High-rate precision experiments*. Nucl. Phys. A 711 352–360 (2002). JLAB-PHY-02-19.
- A:** Iori, M and others, SELEX Collaboration: *Measurement of the D_s^\pm Lifetime*. Phys. Lett. B 523 22–28 (2001). FERMILAB-PUB-01-086-E, arXiv:hep-ex/0106005.
- A:** Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. Frascati Phys. Ser. 20 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, arXiv:hep-ex/0012004.
- A:** Kushnirenko, A. and others, SELEX Collaboration: *Precision Measurements of the Λ_c^+ and D^0 lifetimes*. Phys. Rev. Lett. 86 5243–5246 (2001). FERMILAB-PUB-00-255-E, arXiv:hep-ex/0010014.
- E:** Nguyen, H., CKM Collaboration: *CKM - Charged kaons at the Main Injector*. Frascati Phys. Ser. 20 91–98 (2001).
- A:** Cooper, P. S., CKM Collaboration: *CKM: Charged kaons at the main injector*. Nucl. Phys. B Proc. Suppl. 99 121–126 (2001). FERMILAB-CONF-00-344-E.
- T:** Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c*. doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .
- A:** RUSS, J. and others, SELEX Collaboration: *Recent results from SELEX*. (2000). FERMILAB-CONF-00-252-E, CMU-HEP-00-04, arXiv:hep-ex/0010011.
- A:** Jun, S. Y. and others, SELEX Collaboration: *Observation of the Cabibbo Suppressed Decay $\Xi_c^+ \rightarrow pK^-\pi^+$* . Phys. Rev. Lett. 84 1857–1861 (2000). FERMILAB-PUB-99-217-E, arXiv:hep-ex/9907062.
- E:** Nappi, E.: *RICH detectors*. AIP Conf. Proc. 536 60 (2000). CERN-EP-99-149.
- T:** Kaya, Mithat: *D(s) charm strange meson production and asymmetry*. doi:10.2172/1421433 (2000). FERMILAB-THESIS-2000-37, UMI-99-96115 .
- T:** Garcia, Fernanda G.: *Hadroproduction of the Λ_c Charmed Baryon by the SELEX-E781 Experiment*. doi:10.2172/1421474 (2000). FERMILAB-THESIS-2000-40 .
- A:** Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. Revista Mexicana de Física 46 S2 37-38 (2000). UASLP-IF-00-002.
- A:** Engelfried, Jurgen: *Experimental techniques*. AIP Conf. Proc. 531 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- E:** Appel, Jeffrey A. and Brown, Charles N. and Cooper, Peter S. and White, Herman B. (Eds.): *Symposium in Celebration of the Fixed Target Program with the Tevatron*. (2000). FERMILAB-CONF-01-386, arXiv:hep-ex/0008076.
- E:** Stone, Sheldon: *Physics results from RICH detectors*. Nucl. Instrum. Meth. A 433 293–306 (1999). HEPHY-99-1, arXiv:hep-ex/9901001.
- E:** Ryckbosch, D., HERMES Collaboration: *The HERMES RICH detector*. Nucl. Instrum. Meth. A 433 98–103 (1999).
- T:** Nelson, Kenneth Day: *Polarization of $\Lambda(0)$ inclusively produced by a 610-GeV/c Sigma- beam*. doi:10.2172/1421506 (1999). FERMILAB-THESIS-1999-55, UMI-99-33401 .
- E:** Landsberg, L. G.: *The search for exotic hadrons*. Phys. Usp. 42 871–886 (1999).
- A:** Kushnirenko, A. Y., SELEX Collaboration: *Charm physics results from SELEX*. AIP Conf. Proc. 459 168–178 (1999).
- A:** Garcia, Fernanda G. and Jun, Soon Yung, SELEX Collaboration: *First charm baryon physics from SELEX (E781)*. (1999). FERMILAB-CONF-99-070-E, arXiv:hep-ex/9905003.
- A:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L.: *The RICH Detector of the SELEX Experiment*. Nucl. Instrum. Meth. A 433 149–152 (1999). FERMILAB-CONF-98-399-E.
- A:** Russ, J. and others, SELEX Collaboration: *First charm hadroproduction results from SELEX*. (1998). CMU-HEP-98-07, DOE-ER-40682-103, FERMILAB-CONF-98-456-A, arXiv:hep-ex/9812031.
- E:** Coleman, R. and others, CKM Collaboration: *A Proposal for a Precision Measurement of the Decay $K^+ \rightarrow \pi^+\nu\bar{\nu}$ and Other Rare K^+ Processes at Fermilab Using the Main Injector*. (1998). FERMILAB-PROPOSAL-0905 .
19. Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. Nucl. Instrum. Meth. A 433 71–76 (1999).

10 Citations:

- E:** Forty, Roger and Ullaland, Olav: *Particle Identification: Time-of-Flight, Cherenkov and Transition Radiation Detectors*. doi:10.1007/978-3-030-35318-6%5F7 (2020).
- E:** Ullaland, O. and Forty, R.: *Landolt-Börnstein – Groups I Elementary Particles, Nuclei and Atoms*. doi:10.1007/978-3-642-03606-4%5F7 (2011).

- A: Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* 639 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052](https://arxiv.org/abs/1009.0052) [physics.ins-det].
- A: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* 857 340–346 (2006).
- E: Ratcliff, Blair N.: *Imaging rings in ring imaging Cherenkov counters*. *Nucl. Instrum. Meth. A* 502 211–221 (2003). SLAC-PUB-9508.
- A: Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](https://arxiv.org/abs/physics/0312061).
- E: Va'vra, Jaroslav: *Particle identification methods in high-energy physics*. *Nucl. Instrum. Meth. A* 453 262–278 (2000). SLAC-PUB-8356.
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* 46 S2 37-38 (2000). UASLP-IF-00-002.
- A: Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* 531 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](https://arxiv.org/abs/hep-ex/9912036).
- E: Ekelof, T.: *Optics and radiators for RICH*. *Nucl. Instrum. Meth. A* 433 372–384 (1999).
18. Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L.: *The RICH Detector of the SELEX Experiment*. *Nucl. Instrum. Meth. A* 433 149–152 (1999).
- 23 Citations:
- E: Lehmann, A.: *Status and perspectives of vacuum-based photon detectors*. *Nucl. Instrum. Meth. A* 1056 168568 (2023).
- A: Engelfried, Jürgen: *Handbook of Particle Detection and Imaging, 2.edition*. doi:10.1007/978-3-319-93785-4%5F6 (2021).
- T: Mahajan, Sonam: *A Study of Particle Production in Proton Induced Collisions Using the MIPP Detector at Fermilab*. doi:10.2172/1248343 (2015). FERMILAB-THESIS-2015-36 .
- T: Mahajan, Sonam: *A study of particle production in proton induced collisions using the MIPP detector at Fermilab*. (2015). FERMILAB-THESIS-2015-45 .
- A: Engelfried, Jürgen: *Particle identification*. doi:10.1007/978-3-642-13271-1%5F6 (2012).
- E: Graf, N. and others, MIPP Collaboration: *Charged Kaon Mass Measurement using the Cherenkov Effect*. *Nucl. Instrum. Meth. A* 615 27–32 (2010). FERMILAB-PUB-09-413-E, [arXiv:0909.0971](https://arxiv.org/abs/0909.0971) [hep-ex].
- T: Gunaydin, Yusuf Oguzhan: *Cross Section Measurements In The Main Injector Particle Production (Fnal-E907) Experiment At 58 Gev Energy*. doi:10.2172/1023970 (2009). FERMILAB-THESIS-2009-65 .
- T: Graf, Nicholas J.: *Measurement of the charged kaon mass with the MIPP RICH*. doi:10.2172/961939 (2008). FERMILAB-THESIS-2008-87 .
- T: Seun, Sin Man: *Measurement of $\pi - K$ ratios from the NuMI target*. doi:10.2172/935004 (2007). FERMILAB-THESIS-2007-61 .
- T: Lebedev, Andrey V.: *Ratio of pion kaon production in proton carbon interactions*. doi:10.2172/948174 (2007). FERMILAB-THESIS-2007-76 .
- T: Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. doi:10.2172/1155869 (2006). FERMILAB-THESIS-2006-91 .
- E: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* 857 340–346 (2006).
- A: Balatz, M. Y. and others, SELEX Collaboration: *The lead - glass electromagnetic calorimeter for the SELEX experiment*. *Nucl. Instrum. Meth. A* 545 114–138 (2005). FERMILAB-TM-2252.
- A: Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* 553 220–224 (2005). FERMILAB-CONF-05-015-CD.
- A: Iori, M., SELEX Collaboration: *Measurement of the Omega/c0 lifetime*. *Frascati Phys. Ser.* 36 125–131 (2004).
- A: Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](https://arxiv.org/abs/physics/0312061).
- A: Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment*. *Nucl. Instrum. Meth. A* 502 62–66 (2003). FERMILAB-CONF-02-192-E, UASLP-IF-02-008, [arXiv:hep-ex/0209020](https://arxiv.org/abs/hep-ex/0209020).
- A: Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* 502 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](https://arxiv.org/abs/hep-ex/0208046).
- T: Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c*. doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* 46 S2 37-38 (2000). UASLP-IF-00-002.

- A: Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* 531 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- E: Glassel, P.: *The limits of the ring image Cherenkov technique*. *Nucl. Instrum. Meth. A* 433 17–23 (1999).
- E: Ekelof, T.: *Optics and radiators for RICH*. *Nucl. Instrum. Meth. A* 433 372–384 (1999).
17. Adamovich, M. I. and others, WA89 Collaboration: *First observation of the Xi- pi+ decay mode of the Xi(1690)0 hyperon*. *Eur. Phys. J. C* 5 621–624 (1998). [arXiv:hep-ex/9710024](#).
- 54 Citations:
- E: Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* 110 030001 (2024).
- E: Magas, V. K. and Cadenas, V. Valcarce and Feijoo, A.: *The $\Xi(1620)$ and $\Xi(1690)$ molecular states from meson-baryon interaction up to next-to-leading order*. *Nuovo Cim. C* 47 177 (2024).
- E: Crede, Volker and Yelton, John: *70 years of hyperon spectroscopy: a review of strange Ξ , Ω baryons, and the spectrum of charmed and bottom baryons*. *Rept. Prog. Phys.* 87 106301 (2024). [arXiv:2502.08815 \[hep-ex\]](#).
- E: Liu, Si-Wei and Shen, Qing-Hua and Xie, Ju-Jun: *Theoretical study on $\Lambda_c^+ \rightarrow \Lambda K^+ \bar{K}^0$ decay and $\Xi^*(1690)$ resonance*. *Phys. Rev. D* 108 114006 (2023). [arXiv:2307.09106 \[hep-ph\]](#).
- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* 2022 083C01 (2022).
- E: Nishibuchi, Takuma and Hyodo, Tetsuo: *Nature of excited $pN^* \Xi$ baryons with threshold effects*. *EPJ Web Conf.* 271 10002 (2022). [arXiv:2208.14608 \[hep-ph\]](#).
- E: Hyodo, Tetsuo and Niyama, Masayuki: *QCD and the strange baryon spectrum*. *Prog. Part. Nucl. Phys.* 120 103868 (2021). [arXiv:2010.07592 \[hep-ph\]](#).
- E: Sumihama, Mizuki, Belle Collaboration: *Studies of $\Xi(1620)^0$ and $\Xi(1690)^0$ hyperons at Belle*. *AIP Conf. Proc.* 2249 030040 (2020).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* 2020 083C01 (2020).
- E: Sumihama, M. and others, Belle Collaboration: *Observation of $\Xi(1620)^0$ and evidence for $\Xi(1690)^0$ in $\Xi_c^+ \rightarrow \Xi^- \pi^+ \pi^+$ decays*. *Phys. Rev. Lett.* 122 072501 (2019). [arXiv:1810.06181 \[hep-ex\]](#).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* 98 030001 (2018).
- E: Goetz, J. T. and others, CLAS Collaboration: *Study of Ξ^* Photoproduction from Threshold to $W = 3.3$ GeV*. *Phys. Rev. C* 98 062201 (2018). [arXiv:1809.00074 \[nucl-ex\]](#).
- E: Sekihara, Takayasu: *Dynamically Generated $\Xi(1690)$* . *JPS Conf. Proc.* 17 072007 (2017). [arXiv:1607.03374 \[hep-ph\]](#).
- E: Miyahara, Kenta and Hyodo, Tetsuo and Oka, Makoto and Nieves, Juan and Oset, Eulogio: *Theoretical study of the $\Xi(1620)$ and $\Xi(1690)$ resonances in $\Xi_c \rightarrow \pi + MB$ decays*. *Phys. Rev. C* 95 035212 (2017). [arXiv:1609.00895 \[nucl-th\]](#).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* 40 100001 (2016).
- E: Sekihara, Takayasu: *$\Xi(1690)$ as a $\bar{K}\Sigma$ molecular state*. *PTEP* 2015 091D01 (2015). [arXiv:1505.02849 \[hep-ph\]](#).
- E: Ablikim, M. and others, BESIII Collaboration: *Measurements of $\psi(3686) \rightarrow K^- \Lambda \bar{\Xi}^+ + c.c.$ and $\psi(3686) \rightarrow \gamma K^- \Lambda \bar{\Xi}^+ + c.c.$* . *Phys. Rev. D* 91 092006 (2015). [arXiv:1504.02025 \[hep-ex\]](#).
- E: Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* 38 090001 (2014).
- E: Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* 86 010001 (2012). SLAC-REPRINT-2014-001.
- E: Afanasev, A. and others: *Photoproduction of the Very Strangest Baryons on a Proton Target in CLAS12*. (2012). JLAB-PR-12-008.
- E: Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* 37 075021 (2010). FERMILAB-PUB-10-665-PPD.
- T: Goetz, John Theodore: *Ξ Hyperon Photoproduction from Threshold to 5.4 GeV with the CEBAF Large Acceptance Spectrometer*. (2010).
- E: Lutz, M. F. M. and others, PANDA Collaboration: *Physics Performance Report for PANDA: Strong Interaction Studies with Antiprotons*. (2009). [arXiv:0903.3905 \[hep-ex\]](#).
- E: Siebert, H. W.: *The challenge of correlations in hadronic production of $V0 V0$ pairs*. *Eur. Phys. J. ST* 162 155–159 (2008).
- E: Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* 667 1–1340 (2008).
- E: Aubert, Bernard and others, BaBar Collaboration: *Measurement of the Spin of the Xi(1530) Resonance*. *Phys. Rev. D* 78 034008 (2008). SLAC-PUB-13160, BABAR-PUB-07-073, [arXiv:0803.1863 \[hep-ex\]](#).

- T:** Ziegler, Veronique: *Hyperon and Hyperon Resonance Properties from Charm Baryon Decays at BaBar*. doi:10.2172/909548 (2007). SLAC-R-868.
- E:** Guo, L. and others: *Cascade production in the reactions $\gamma p \rightarrow K^+ K^+ (X)$ and $\gamma p \rightarrow K^+ K^+ \pi^- (X)$* . *Phys. Rev. C* **76** 025208 (2007). JLAB-PHY-07-621, arXiv:nucl-ex/0702027.
- T:** Rubáček, Lukas: *Search for the Pentaquark states in Lepton-Nucleon Scattering at HERMES*. doi:10.3204/DESY-THESIS-2006-014 (2006). DESY-THESIS-2006-014.
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E:** Nakayama, K. and Oh, Yongseok and Habermann, H.: *Photoproduction of Xi off nucleons*. *Phys. Rev. C* **74** 035205 (2006). arXiv:hep-ph/0605169.
- T:** Flores Castillo, Angel de Jesus: *Search for Baryon resonances in the experiment SELEX E781*. doi:10.2172/1155155 (2006). FERMILAB-MASTERS-2006-09 .
- E:** Aubert, Bernard and others, BaBar Collaboration: *Measurement of the Mass and Width and Study of the Spin of the $\Xi(1690) 0$ Resonance from $\Lambda_c^+ \rightarrow \Lambda \bar{K}^0 K^+$ Decay at Babar*. (2006). SLAC-PUB-11990, BABAR-CONF-06-021, arXiv:hep-ex/0607043.
- T:** Seixas de Rezende, Fabio Antonio: *A Dependence Study of Ξ^{*0} and $\bar{\Xi}^{*0}$ in 250 GeV/c π^- . K^- -nucleon Interactions*. doi:10.2172/1028847 (2005). FERMILAB-MASTERS-2005-04 .
- E:** Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. *Nucl. Phys. A* **754** 430–442 (2005).
- E:** Price, J. W. and others, CLAS Collaboration: *Exclusive photoproduction of the cascade (Xi) hyperons*. *Phys. Rev. C* **71** 058201 (2005). JLAB-PHY-04-46, arXiv:nucl-ex/0409030.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Search for the exotic Xi-(1860) resonance in 340-GeV/c Sigma-nucleus interactions*. *Phys. Rev. C* **70** 022201 (2004). arXiv:hep-ex/0405042.
- A:** Pochodzalla, Josef: *Pentaquarks: Facts and mysteries or Sisyphus at work*. (2004). arXiv:hep-ex/0406077.
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).
- E:** Fischer, H. G. and Wenig, S.: *Are there $S = -2$ pentaquarks?*. *Eur. Phys. J. C* **37** 133–140 (2004). arXiv:hep-ex/0401014.
- E:** Boudreau, J., CDF Collaboration: *What CDF sees with the Silicon Vertex Trigger*. *Mod. Phys. Lett. A* **19** 1633–1648 (2004).
- A:** Alexandrov, Yu., WA89 Collaboration: *A MEASUREMENT OF A POLARIZATION IN INCLUSIVE PRODUCTION BY Σ^- 340 GeV /c IN C AND Cu TARGETS*. (2004).
- T:** Tuggle, Joseph M.: *Measurement of the Xi(*0) (1530) mass and width*. (2003). FERMILAB-BACHELORS-2003-01 .
- E:** Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Rev. D* **66** 010001 (2002).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *A measurement of K^{*+} production in the hyperon beam experiment at CERN*. *Eur. Phys. J. C* **22** 47–54 (2001).
- T:** Eiges, Vitaly E.: *Study of Rare Decays of Λ_{c+} Baryons*. (2001).
- E:** Groom, Donald E. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Eur. Phys. J. C* **15** 1–878 (2000).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Production of Xi* resonances in Sigma- induced reactions at 345-GeV/c*. *Eur. Phys. J. C* **11** 271–278 (1999). arXiv:hep-ex/9907021.
- A:** Siebert, H. W., WA89 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam*. *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- A:** Paul, Stephan: *Heavy baryons: Different facets of experimental results*. (1999). arXiv:hep-ph/9903311.
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam*. (1998).
- E:** Coester, F. and Dannbom, K. and Riska, D. O.: *Covariant quark model for the baryons*. *Nucl. Phys. A* **634** 335–367 (1998). arXiv:hep-ph/9711458.
16. Engelfried, J. and Kilmer, J. and Ramberg, E. and Stutte, L. and Kozhevnikov, A. and Kubarovskiy, V. and Molchanov, V. and Filimonov, I. and Nemitkin, A. and Rud, V., E781 Collaboration: *The E781 (SELEX) RICH Detector*. *Nucl. Instrum. Meth. A* **409** 439–442 (1998).
- 37 Citations:
- A:** Engelfried, Jürgen: *Handbook of Particle Detection and Imaging, 2.edition*. doi:10.1007/978-3-319-93785-4%5F6 (2021).

- A:** Nigmatkulov, Grigory, SELEX Collaboration: *Beam and target dependencies of two-kaon femtoscopic correlations in SELEX*. *EPJ Web Conf.* **138** 03013 (2017).
- E:** Nigmatkulov, G. A. and others, SELEX Collaboration: *The Transverse Momentum Dependence of Charged Kaon Bose–Einstein Correlations in the SELEX Experiment*. *Phys. Lett. B* **753** 458–464 (2016). FERMILAB-PUB-15-054-PPD, [arXiv:1501.04316](https://arxiv.org/abs/1501.04316) [hep-ex].
- T:** Mahajan, Sonam: *A Study of Particle Production in Proton Induced Collisions Using the MIPP Detector at Fermilab*. doi:10.2172/1248343 (2015). FERMILAB-THESIS-2015-36 .
- T:** Mahajan, Sonam: *A study of particle production in proton induced collisions using the MIPP detector at Fermilab*. (2015). FERMILAB-THESIS-2015-45 .
- A:** Nigmatkulov, G.A. and Romanov, D.A. and Sinev, G.V.: *PARNOE ROZhDENIE Φ -MEZONOV V Σ^- A VZA-IMODEISTVIYaKh PRI NACHAL'NOI ENERGII 600 GEV*. Vestnik Nacional'nogo issledovatel'skogo yadernogo universiteta BkMIFIBы 1 26-30 (2012).
- A:** Engelfried, Jürgen: *Particle identification*. doi:10.1007/978-3-642-13271-1%5F6 (2012).
- A:** Nigmatkulov, G. A. and Savchenko, A.A.: *Correlations of antiprotons with small relative momentum in the SELEX Experiment*. *Bull. of the Russian Academy of Sciences* **75** 480-483 (2011).
- A:** Cooper, Peter S. and Engelfried, Jürgen: *Measuring the Masses of the Charged Hadrons using a RICH as a Precision Velocity Spectrometer*. *Nucl. Instrum. Meth. A* **639** 246–248 (2011). FERMILAB-CONF-10-332-CD, [arXiv:1008.4171](https://arxiv.org/abs/1008.4171) [physics.ins-det].
- E:** Graf, N. and others, MIPP Collaboration: *Charged Kaon Mass Measurement using the Cherenkov Effect*. *Nucl. Instrum. Meth. A* **615** 27–32 (2010). FERMILAB-PUB-09-413-E, [arXiv:0909.0971](https://arxiv.org/abs/0909.0971) [hep-ex].
- E:** Klempt, Eberhard and Richard, Jean-Marc: *Baryon spectroscopy*. *Rev. Mod. Phys.* **82** 1095–1153 (2010). [arXiv:0901.2055](https://arxiv.org/abs/0901.2055) [hep-ph].
- T:** Gunaydin, Yusuf Oguzhan: *Cross Section Measurements In The Main Injector Particle Production (Fnal-E907) Experiment At 58 Gev Energy*. doi:10.2172/1023970 (2009). FERMILAB-THESIS-2009-65 .
- T:** Vazquez-Jauregui, Eric: *Measurement of Branching Ratios for Non-leptonic Cabibbo-suppressed Decays of the Charmed-Strange Baryon Ξ_c^+* . doi:10.2172/937240 (2008). FERMILAB-THESIS-2008-40 .
- T:** Graf, Nicholas J.: *Measurement of the charged kaon mass with the MIPP RICH*. doi:10.2172/961939 (2008). FERMILAB-THESIS-2008-87 .
- T:** Seun, Sin Man: *Measurement of $\pi - K$ ratios from the NuMI target*. doi:10.2172/935004 (2007). FERMILAB-THESIS-2007-61 .
- T:** Lebedev, Andrey V.: *Ratio of pion kaon production in proton carbon interactions*. doi:10.2172/948174 (2007). FERMILAB-THESIS-2007-76 .
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. doi:10.2172/1155869 (2006). FERMILAB-THESIS-2006-91 .
- A:** Cooper, Peter S. and Engelfried, Jürgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* **553** 220–224 (2005). FERMILAB-CONF-05-015-CD.
- A:** Engelfried, Jürgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](https://arxiv.org/abs/physics/0312061).
- A:** Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment*. *Nucl. Instrum. Meth. A* **502** 62–66 (2003). FERMILAB-CONF-02-192-E, UASLP-IF-02-008, [arXiv:hep-ex/0209020](https://arxiv.org/abs/hep-ex/0209020).
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](https://arxiv.org/abs/hep-ex/0208046).
- T:** Akgun, Ugur: *CMS HF calorimeter PMTs and $\Xi(c)^+$ lifetime measurement*. doi:10.2172/15020228 (2003). UMI-31-14464, FERMILAB-THESIS-2003-43 .
- A:** Mattson, Mark Edward: *Search for Baryons with Two Charm Quarks*. doi:10.2172/1420963 (2002). FERMILAB-THESIS-2002-03, UMI-30-43381 .
- T:** Vorwalter, Klaus: *Determination of the pion charge radius with a silicon microstrip detector system*. doi:10.2172/1421419 (2000). FERMILAB-THESIS-2000-45 .
- T:** Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c*. doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .
- T:** Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes*. doi:10.2172/1421447 (2000). UMI-30-02781, FERMILAB-THESIS-2000-09 .
- T:** Krueger, Henning: *Investigation of elastic hadron electron scattering at 540 GeV/c in order to measure the electromagnetic charge radius of the proton*. doi:10.2172/1421421 (2000). FERMILAB-THESIS-2000-43 .
- A:** Engelfried, Jürgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](https://arxiv.org/abs/hep-ex/9912036).

- A:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L., SELEX Collaboration: *The SELEX Phototube RICH Detector*. *Nucl. Instrum. Meth. A* **431** 53–69 (1999). FERMILAB-PUB-98-299-E, [arXiv:hep-ex/9811001](#).
- A:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L.: *The RICH Detector of the SELEX Experiment*. *Nucl. Instrum. Meth. A* **433** 149–152 (1999). FERMILAB-CONF-98-399-E.
- T:** Zacarias, Galileo Dominguez: *Angular distribution of $K_s^0 \rightarrow \pi^+\pi^-$ in E781*. (1998). FERMILAB-MASTERS-1998-04 .
- A:** Smith, V. J., E781 Collaboration: *The SELEX Experiment at Fermilab*. *AIP Conf. Proc.* **432** 627–630 (1998).
- T:** Ozel, Erdogan: *Magnetic Field Values in SELEX (E781) Charm Baryon Production Experiment*. (1998). FERMILAB-MASTERS-1998-02 .
- E:** Nappi, E.: *RICH detectors operated in the visible light region*. *Nucl. Instrum. Meth. A* **409** 417–422 (1998).
- A:** Gough Eschrich, Ivo M.: *Measurement of the sigma- charge radius at the Fermilab Hyperon beam..* [doi:10.2172/1421522](#) (1998). FERMILAB-THESIS-1998-62 .
- T:** Dersch, Uwe: *Measurement of total cross-sections using Sigma, p, pi-, and pi+ at 600 GeV/c laboratory momentum*. [doi:10.2172/1421521](#) (1998). FERMILAB-THESIS-1998-63 .
- E:** Coleman, R. and others, CKM Collaboration: *A Proposal for a Precision Measurement of the Decay $K^+ \rightarrow \pi^+\nu\bar{\nu}$ and Other Rare K^+ Processes at Fermilab Using the Main Injector*. (1998). FERMILAB-PROPOSAL-0905 .
15. Andrighetto, A. and others, WA94 Collaboration: *Charged particle production in S S collisions at 200-GeV/c per nucleon*. *Phys. Lett. B* **412** 148–154 (1997).
- 3 Citations:
- E:** Margetis, S. and Safarik, K. and Villalobos Baillie, O.: *Strangeness production in heavy-ion collisions*. *Ann. Rev. Nucl. Part. Sci.* **50** 299–342 (2000).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
14. Adamovich, M. I. and others, WA89 Collaboration: *Ξ^- production by Σ^- , π^- and neutrons in the hyperon beam experiment at CERN*. *Z. Phys. C* **76** 35–44 (1997).
- 37 Citations:
- E:** Miao, Han and Zhang, Jianyu: *Hyperon–nucleus/nucleon scattering at BESIII*. *Int. J. Mod. Phys. A* **39** 2442018 (2024). [arXiv:2405.19892 \[nucl-ex\]](#).
- E:** Dai, Jianping and Li, Hai-Bo and Miao, Han and Zhang, Jianyu: *Prospects to study hyperon-nucleon interactions at BESIII**. *Chin. Phys. C* **48** 073003 (2024). [arXiv:2209.12601 \[hep-ex\]](#).
- E:** Ablikim, M. and others, BESIII Collaboration: *First measurement of ΛN inelastic scattering with Λ from $e^+e^- \rightarrow J/\psi \rightarrow \Lambda\Lambda^-$* . *Phys. Rev. C* **109** L052201 (2024). [arXiv:2310.00720 \[nucl-ex\]](#).
- E:** Ablikim, Medina and others, BESIII Collaboration: *First Study of Reaction $\Xi^0 n \rightarrow \Xi^- p$ Using Ξ^0 -Nucleus Scattering at an Electron-Positron Collider*. *Phys. Rev. Lett.* **130** 251902 (2023). [arXiv:2304.13921 \[hep-ex\]](#).
- T:** Wein, Philipp: *Chiral perturbation theory for generalized parton distributions and baryon distribution amplitudes*. (2016).
- E:** Arakelyan, G. H. and Kaidalov, A. B. and Merino, C. and Shabelski, Yu. M.: *Production of Strange Secondaries in High Energy Sigma(-)A Collisions*. *Phys. Atom. Nucl.* **74** 426–436 (2011). [arXiv:1004.4074 \[hep-ph\]](#).
- A:** Siebert, H. W.: *The challenge of correlations in hadronic production of $V^0 V^0$ pairs*. *Eur. Phys. J. ST* **162** 155–159 (2008).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Production of V^0 pairs in the hyperon experiment WA89*. *Eur. Phys. J. C* **52** 857–874 (2007).
- E:** Shabelski, Yu. M.: *String Junction and Diffusion of Baryon Charge in Multiparticle Production Processes*. (2007). [arXiv:0705.0947 \[hep-ph\]](#).
- E:** Bopp, Fritz W. and Shabelski, M.: *String junction effects for forward and central baryon production in hadron-nucleus collisions*. *Eur. Phys. J. A* **28** 237–243 (2006). SI-HEP-2006-02, [arXiv:hep-ph/0603193](#).
- E:** Zavertyaev, M., WA89, COMPASS Collaboration: *A search for pentaquark candidates in experiments WA89 and COMPASS*. *Nucl. Phys. A* **755** 387–390 (2005).
- E:** Pochodzalla, J.: *Future hypernuclear physics at MAMI-C and PANDA-GSI*. *Nucl. Phys. A* **754** 430–442 (2005).
- E:** Zavertyaev, M., HERA-B Collaboration: *Strangeness production at the HERA-B experiment*. (2004). [arXiv:hep-ex/0405039](#).

- A:** Adamovich, M. I. and others, WA89 Collaboration: Search for the exotic $\Xi^-(1860)$ resonance in 340-GeV/c Sigma-nucleus interactions. *Phys. Rev. C* **70** 022201 (2004). [arXiv:hep-ex/0405042](#).
- A:** Pochodzalla, Josef: Pentaquarks: Facts and mysteries or Sisyphus at work. (2004). [arXiv:hep-ex/0406077](#).
- A:** Alexandrov, Yu., WA89 Collaboration: A MEASUREMENT OF A POLARIZATION IN INCLUSIVE PRODUCTION BY Σ^- 340 GeV /c IN C AND Cu TARGETS. (2004).
- E:** Vogt, R. and Gutierrez, T. D.: Xi- and omega distributions in hadron nucleus interactions. *Nucl. Phys. A* **726** 134–156 (2003). LBNL-52160, [arXiv:hep-ph/0302109](#).
- E:** Gutierrez, T. D. and Vogt, R.: Asymmetries between strange and anti-strange particle production in hadron proton interactions. *Nucl. Phys. A* **705** 396–432 (2002). LBNL-47715, [arXiv:hep-ph/0107044](#).
- A:** Adamovich, M. I. and others: Spectra and correlations of lambda and lambda produced in 340-GeV/c Sigma- + C and 260-GeV/c n+c interactions. *Phys. Rev. C* **65** 042202 (2002).
- E:** Zavertyaev, M., WA89 Collaboration: Strange particle production with Sigma-, pi- and neutrons in hyperon experiment WA89 at CERN. *Nucl. Phys. B Proc. Suppl.* **93** 62–65 (2001).
- A:** Adamovich, M. I. and others, WA89 Collaboration: A measurement of K^{*+} production in the hyperon beam experiment at CERN. *Eur. Phys. J. C* **22** 47–54 (2001).
- A:** Paul, Stephan: Strangeness in hadronic interactions. *Nucl. Phys. A* **663** 74–84 (2000). [arXiv:hep-ph/9909486](#).
- T:** Garcia, Fernanda G.: Hadroproduction of the Λ_c Charmed Baryon by the SELEX-E781 Experiment. [doi:10.2172/1421474](#) (2000). FERMILAB-THESIS-2000-40 .
- A:** Engelfried, Jurgen: Experimental techniques. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- T:** Dagenhart, William David: Atomic Mass Dependence of Ξ^- Baryon and Ξ^+ Baryon Production in Central 250-GeV/c π^- - Nucleon Interactions. [doi:10.2172/1421449](#) (2000). FERMILAB-THESIS-2000-04, UMI-99-55978 .
- A:** Zavertyaev, M., WA89 Collaboration: Hyperon production with Sigma-, pi- and neutrons in hyperon experiment WA89 at CERN. *Nucl. Phys. B Proc. Suppl.* **75** 24–27 (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: Production of Ξ^* resonances in Sigma- induced reactions at 345-GeV/c. *Eur. Phys. J. C* **11** 271–278 (1999). [arXiv:hep-ex/9907021](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: Charge asymmetries for D, D(s) and Lambda(c) production in Sigma- nucleus interactions at 340-GeV/c. *Eur. Phys. J. C* **8** 593–601 (1999). CERN-EP-98-041, CERN-EP-98-41, MPI-K-H-V5-1998, [arXiv:hep-ex/9803021](#).
- A:** Siebert, H. W., WA89 Collaboration: Studies of charm production and a search for exotic states at the CERN SPS hyperon beam. *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: First observation of the Xi- pi+ decay mode of the Xi(1690)0 hyperon. *Eur. Phys. J. C* **5** 621–624 (1998). CERN-PPE-97-134, MPI-H-V38-1997, [arXiv:hep-ex/9710024](#).
- T:** Newbold, David Michael: Inclusive hyperon polarisation studies at the CERN SPS hyperon beam. (1998).
- E:** Lietava, Roman and Pisut, Jan: Strangeness production in nuclear interactions at 200-A/GeV and the number of nucleon-nucleon collisions. *Eur. Phys. J. C* **5** 135–141 (1998). [arXiv:hep-ph/9711285](#).
- A:** Aleksandrov, Yu. A. and Clement, M. and Dropmann, F. and Fournier, A. and Grafstrom, P. and Hubbard, E. and Paul, S. and Siebert, H. W. and Trombini, A. and Zavertyaev, M.: The High intensity hyperon beam at CERN. *Nucl. Instrum. Meth. A* **408** 359–372 (1998). CERN-SL-97-060-EA, CERN-SL-97-60-EA, CERN-SL-97-061-EA, [arXiv:physics/9801006](#).
- A:** Wittmann, E. B., WA89 Collaboration: Charm- & strangeness-production in Sigma- nucleus interactions. *AIP Conf. Proc.* **412** 875–882 (1997).
- T:** Thilmann, Oliver: Operation of a ring imaging Cerenkov detector and measurement of the total c anti-c production cross-section in 340-GeV/c Sigma- nucleus interactions. (1997).
- T:** Fournier, Alain: Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c. (1997).
- T:** Beck, M.: Einsatz eines hadronischen Spaghetti-Kalorimeters zur Suche nach dem Hexaquark H in Σ^- Nukleon Wechselwirkungen bei $\sqrt{s} = 25 \text{ GeV}/c^2$. (December 1996). Ph.D. Thesis, Universität Heidelberg.
13. Müller, U and others, WA89 Collaboration: The Recent performance of the Omega RICH detector in experiment WA89 at CERN. *Nucl. Instrum. Meth. A* **371** 27–32 (1996).

35 Citations:

- E:** Halepoto, I. A. and others: Investigation of External QE of P3DDDT Photocathode for use in Gaseous UV Photon Detectors. *SindhUniv. Res. Jour. (Sci. Ser.)* **51** 345-350 (2019).
- E:** Halepoto, I. A. and others: Quantum Efficiency of P3HT a new Air-Stable Photocathode for use in Gaseous UV Photon Detectors. *SindhUniv. Res. Jour. (Sci. Ser.)* **51** 163-168 (2019).
- E:** Tessarotto, Fulvio: Evolution and Recent Developments of the Gaseous Photon Detectors Technologies. *Nucl. Instrum. Meth. A* **912** 278–286 (2018). [arXiv:1710.09309 \[physics.ins-det\]](#).

- E:** Tessarotto, Fulvio: *Status and perspectives of gaseous photon detectors*. [Nucl. Instrum. Meth. A 876 225–232](#) (2017).
- E:** Dalla Torre, S.: *Single photon detection by gaseous counters: Status and perspectives*. [doi:10.1109/NSSMIC.2016.8069967](#) (2016).
- E:** KhaliqueRajpar, A. and Moghal, A.H. and Ismaili, I.A. and Grazeulvacious, J.V. and Krebs, Fredrick C. and Laghari1, B.A and Ahmed, Iftekhar and Halepoto, Imran Ali: *Investigation of New Organic Photocathodes in Vacuum for Position Sensitive Gaseous Detectors*. *IOSR Journal of Applied Physics* 6 33-37 (2014).
- E:** Dalla Torre, S.: *Status and perspectives of gaseous photon detectors*. [Nucl. Instrum. Meth. A 639 111–116](#) (2011).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Observation of a resonance in the $K(s)p$ decay channel at a mass of 1765 MeV/c**2*. [Eur. Phys. J. C 50 535–538](#) (2007). [arXiv:hep-ex/0702044](#).
- E:** Nappi, E. and Seguinot, J.: *Ring imaging Cherenkov detectors: The state of the art and perspectives*. [Riv. Nuovo Cim. 28 1–130](#) (2005).
- T:** George, Katherine Anne: *CP Violation studies of $B \rightarrow DD$ channels using the LHCb detector*. (2004). CERN-THESIS-2004-039.
- A:** Engelfried, Jürgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Determination of the total c anti- c production cross-section in 340-GeV/c σ - nucleus interactions*. [Eur. Phys. J. C 13 247–254](#) (2000). [arXiv:hep-ex/9908061](#).
- E:** Nappi, E.: *RICH detectors*. [AIP Conf. Proc. 536 60](#) (2000). CERN-EP-99-149.
- A:** Engelfried, Jürgen: *Experimental techniques*. [AIP Conf. Proc. 531 102–121](#) (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Charge asymmetries for D , $D(s)$ and $\Lambda(c)$ production in Σ - nucleus interactions at 340-GeV/c*. [Eur. Phys. J. C 8 593–601](#) (1999). CERN-EP-98-041, CERN-EP-98-41, MPI-K-H-V5-1998, [arXiv:hep-ex/9803021](#).
- E:** Stone, Sheldon: *Physics results from RICH detectors*. [Nucl. Instrum. Meth. A 433 293–306](#) (1999). HEPHY-99-1, [arXiv:hep-ex/9901001](#).
- A:** Siebert, H. W., WA89 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam*. [Nucl. Instrum. Meth. A 433 352–356](#) (1999).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. [Nucl. Instrum. Meth. A 433 71–76](#) (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of the Ξ - π + decay mode of the $\Xi(1690)0$ hyperon*. [Eur. Phys. J. C 5 621–624](#) (1998). CERN-PPE-97-134, MPI-H-V38-1997, [arXiv:hep-ex/9710024](#).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam*. (1998).
- E:** Biagi, S. F. and Bowcock, T. J. V. and Duxbury, D. and Gabathuler, E.: *Observation of UV photons with a microdot chamber*. [Nucl. Phys. B Proc. Suppl. 61 311–314](#) (1998).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Ξ - production by Σ -, π - and neutrons in the hyperon beam experiment at CERN*. [Nucl. Phys. B Proc. Suppl. 55 14–18](#) (1997). CERN-PPE-97-023, CERN-PPE-97-23, MPI-K-97-9, [arXiv:hep-ex/9703007](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Ξ^- production by Σ^- , π^- and neutrons in the hyperon beam experiment at CERN*. [Z. Phys. C 76 35–44](#) (1997).
- T:** Volkemer, Burkhard: *Development and structure of central proportional wire chambers and determination of the lifetime of the charmed baryon Λ_c^+ , measurement of the production of D^\pm and Λ_c^+ , and an upper limit on the production of the Ξ_c^+ in a 330 GeV/c Σ^- hyperon beam*. (1997).
- E:** Va`vra, Jaroslav: *Photon detectors with gaseous amplification*. [Nucl. Instrum. Meth. A 387 137–145](#) (1997). SLAC-PUB-7241.
- T:** Fournier, Alain: *Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c*. (1997).
- E:** Va`vra, J.: *Photon detectors*. [Nucl. Instrum. Meth. A 371 33–56](#) (1996). SLAC-PUB-6961, SLAC-PUB-95-6961.
- A:** Siebert, H. W., WA89 Collaboration: *Hyperons and charm baryons at CERN*. [Nucl. Phys. B Proc. Suppl. 50 162–167](#) (1996).
- A:** Muller, U., WA89 Collaboration: *Search for charmed-strange baryons in experiment WA89*. [Nucl. Instrum. Meth. A 371 192–194](#) (1996).
- T:** Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons*. [doi:10.2172/1372289](#) (1996). [FERMILAB-THESIS-1996-76](#) .
- E:** Kluit, P. M.: *Physics with a ring imaging Cherenkov detectors*. [Nucl. Instrum. Meth. A 371 223–227](#) (1996). NIKHEF-95-048.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian)*. (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Buys, A.: *RICH in operating experiments*. [Nucl. Instrum. Meth. A 371 1–7](#) (1996).
- T:** Berat, Corrine: *Contribution to the experimental study of charmed hadron production with a hyperon beam*. (1996). ISN-96-114.
- E:** Buys, A.: *RICH detectors in operating experiments*. (1995). DELPHI-95-163 RICH 85.

12. Stutte, Linda and Engelfried, Jurgen and Kilmer, James: *A Method to evaluate mirrors for Cherenkov counters*. *Nucl. Instrum. Meth. A* **369** 69–78 (1996).

15 Citations:

- E:** Dipold, J. and Medina, M. C. and García, B. and Rasztocky, E. and Mancilla, A. and Maya, J. and Larrarte, J. J. and de Souza, V.: *On-site mirror facet condensation measurements for the Cherenkov Telescope Array*. *Nucl. Instrum. Meth. A* **830** 407–416 (2016).
- E:** Canestrari, Rodolfo and Giro, Enrico and Bonnoli, Giacomo and Farisato, Giancarlo and Lessio, Luigi and Rodeghiero, Gabriele and Spiga, Rossella and Toso, Giorgio and Pareschi, Giovanni: *A facility to evaluate the focusing performance of mirrors for Cherenkov Telescopes*. *Nucl. Instrum. Meth. A* **806** 61–69 (2016). [arXiv:1504.02962 \[astro-ph.IM\]](#).
- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- E:** Graf, N. and others, MIPP Collaboration: *Charged Kaon Mass Measurement using the Cherenkov Effect*. *Nucl. Instrum. Meth. A* **615** 27–32 (2010). FERMILAB-PUB-09-413-E, [arXiv:0909.0971 \[hep-ex\]](#).
- T:** Graf, Nicholas J.: *Measurement of the charged kaon mass with the MIPP RICH*. [doi:10.2172/961939](#) (2008). FERMILAB-THESIS-2008-87 .
- A:** Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- E:** Estrada, N. and Engelfried, J. and Morelos Pineda, Antonio: *Ronchi test for flat mirrors*. *Nucl. Instrum. Meth. A* **553** 172–176 (2005).
- A:** Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](#).
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](#).
- T:** Laub, Martin: *Development of opto-mechanical tools and procedures for the new generation of RICH-detectors at CERN*. (2001). CERN-THESIS-2006-028, CERN-LHCB-2001-130.
- T:** Dujmic, Denis: *Open charm production at HERA-B*. (2001). [UMI-30-36594](#) .
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- A:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L., SELEX Collaboration: *The SELEX Phototube RICH Detector*. *Nucl. Instrum. Meth. A* **431** 53–69 (1999). FERMILAB-PUB-98-299-E, [arXiv:hep-ex/9811001](#).
- A:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L.: *The RICH Detector of the SELEX Experiment*. *Nucl. Instrum. Meth. A* **433** 149–152 (1999). FERMILAB-CONF-98-399-E.
- A:** Engelfried, J. and Kilmer, J. and Ramberg, E. and Stutte, L. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Filimonov, I. and Nemitkin, A. and Rud, V., E781 Collaboration: *The E781 (SELEX) RICH Detector*. *Nucl. Instrum. Meth. A* **409** 439–442 (1998). FERMILAB-CONF-97-210-E.

11. Oleynik, G. and others: *Fermilab DART Run Control*. *IEEE Trans. Nucl. Sci.* **43** 20–24 (1996).

7 Citations:

- T:** Joffe, David Noah: *A Search for the singlet-P state $h_c(1^1P_1)$ of charmonium in $p\bar{p}$ annihilations at Fermilab experiment E835p*. [doi:10.2172/879172](#) (2004). FERMILAB-THESIS-2004-57, [UMI-31-56594-MC](#) , [arXiv:hep-ex/0505007](#).
- T:** Rumerio, Paolo Giuseppe: *Interference measurement of the chi c0 (1 P-3 0) in proton anti-proton annihilation into two neutral pseudoscalar mesons*. [doi:10.2172/1419220](#) (2003). [UMI-30-87965](#), [UMI-30-87965-MC](#), FERMILAB-THESIS-2003-04 .
- T:** Vidnovic, III, Theodore: *Di-Neutral Pion Production in the Triplet P Wave States of Charmonium*. [doi:10.2172/1420946](#) (2002). [UMI-30-72696](#), FERMILAB-THESIS-2002-17 .
- E:** Ambrogiani, M. and others: *Study of the gamma gamma decays of the chi(c2) (1**3 P(2)) and chi(c0) (1**3 P(0)) charmonium resonances*. *Phys. Rev. D* **62** 052002 (2000).
- E:** Pedrini, D., FOCUS Collaboration: *Overview of FOCUS and a report on charmed mesons in FOCUS*. *Nucl. Phys. B Proc. Suppl.* **75** 105–111 (1999).
- T:** McTaggart, II, Robert John: *The Angular Distribution of Electron Positron Pairs from Exclusive Charmonium Decays in Antiproton Proton Annihilations*. [doi:10.2172/1436763](#) (1998). FERMILAB-THESIS-1999-19, [UMI-99-38019](#) .
- E:** Nakaya, T. and O'Dell, V. and Hazumi, M. and Yamanaka, T.: *Overview and Performance of the FNAL KTeV DAQ system*. *Conf. Proc. C* **950918** 361–365 (1995). FERMILAB-CONF-95-360.

10. Aitala, E. M. and others, E791 Collaboration: *Mass Splitting and Production of Σ_c^0 and Σ_c^{++} Measured in 500 GeV $\pi^- N$ Interactions.* *Phys. Lett. B* **379** 292–298 (1996). [arXiv:hep-ex/9604007](#).

59 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Phys. Rev. D* **110** 030001 (2024).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2022** 083C01 (2022).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *PTEP* **2020** 083C01 (2020).
- T:** Hassan, Hadi: *Modeling and measurement of the b-jet nuclear modification factor in p-Pb collisions at 5.02 TeV with ALICE at the LHC.* (2019). tel-02280803, 2019GREAY008.
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Rev. D* **98** 030001 (2018).
- E:** de Boer, Stefan and Hiller, Gudrun: *Rare radiative charm decays within the standard model and beyond.* *JHEP* **08** 091 (2017). DO-TH-16-20, DO-TH 16/20, QFET-2016-18, [arXiv:1701.06392 \[hep-ph\]](#).
- T:** de Boer, Stefan: *Probing the standard model with rare charm decays.* [doi:10.17877/DE290R-18060](#) (2017).
- E:** Can, K. U. and Erkol, G. and Oka, M. and Takahashi, T. T.: $\Lambda_c \Sigma_c \pi$ coupling and $\Sigma_c \rightarrow \Lambda_c \pi$ decay in lattice QCD. *Phys. Lett. B* **768** 309–316 (2017). [arXiv:1610.09071 \[hep-lat\]](#).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **40** 100001 (2016).
- E:** Kats, Yevgeny: *Measuring c-quark polarization in W+c samples at ATLAS and CMS.* *JHEP* **11** 011 (2016). [arXiv:1512.00438 \[hep-ph\]](#).
- E:** Andronic, A. and others: *Heavy-flavour and quarkonium production in the LHC era: from proton–proton to heavy-ion collisions.* *Eur. Phys. J. C* **76** 107 (2016). [arXiv:1506.03981 \[nucl-ex\]](#).
- E:** Galanti, Mario and Giammanco, Andrea and Grossman, Yuval and Kats, Yevgeny and Stamou, Emmanuel and Zupan, Jure: *Heavy baryons as polarimeters at colliders.* *JHEP* **11** 067 (2015). CP3-15-12, [arXiv:1505.02771 \[hep-ph\]](#).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Chin. Phys. C* **38** 090001 (2014).
- T:** Lee, Soohyung: *Measurements of Masses and Decay Widths of the $\Sigma_c(2455)^{0/++}$ and $\Sigma_c(2520)^{0/++}$ Baryons.* (2014).
- E:** Joo, Changwoo, Belle Collaboration: *Recent results on the charmed hadron systems at Belle.* [doi:10.3204/DESY-PROC-2014-04/252](#) (2014).
- E:** Lee, S. H. and others, Belle Collaboration: *Measurements of the masses and widths of the $\Sigma_c(2455)^{0/++}$ and $\Sigma_c(2520)^{0/++}$ baryons.* *Phys. Rev. D* **89** 091102 (2014). BELLE-PREPRINT-2014-6, KEK-PREPRINT-2013-67, [arXiv:1404.5389 \[hep-ex\]](#).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP).* *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- T:** Wick, Felix: *Charmed Baryon Spectroscopy and Search for CP Violation in $D^0 \rightarrow K_S^0 \pi^+ \pi^-$ at CDF.* [doi:10.5445/IR/1000024981](#) (2011).
- T:** Wick, Felix: *Charmed Baryon Spectroscopy and Search for CP Violation in $D^0 \rightarrow K_S^0 \pi^+ \pi^-$ at CDF.* [doi:10.2172/1248350](#) (2011). IEKP-KA-2011-32, FERMILAB-THESIS-2011-33 .
- E:** Aaltonen, T. and others, CDF Collaboration: *Measurements of the properties of $\Lambda_c(2595)$, $\Lambda_c(2625)$, $\Sigma_c(2455)$, and $\Sigma_c(2520)$ baryons.* *Phys. Rev. D* **84** 012003 (2011). FERMILAB-PUB-11-237-E-PPD, [arXiv:1105.5995 \[hep-ex\]](#).
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics.* *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics.* *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics.* *J. Phys. G* **33** 1–1232 (2006).
- T:** Ahmmed, Shamona: *Study of charmed baryon Sigma(c)(2800) production at the BaBar experiment.* [doi:10.2172/924757](#) (2006). SLAC-R-887, UMI-32-33301 .
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics.* *Particle Data Group.* *Phys. Lett. B* **592** 1 (2004).
- A:** Engelfried, Jurgen: *Review of recent results in charm physics.* *AIP Conf. Proc.* **722** 79–81 (2004). UASLP-IF-03-008, [arXiv:hep-ex/0312038](#).
- A:** Summers, D. J., E791 Collaboration: *Search for Rare Charm Meson Decays at FNAL E791.* (2003). FERMILAB-CONF-01-236-E, UMS-HEP-2001-030, [arXiv:hep-ex/0307086](#).
- E:** Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics.* *Particle Data Group.* *Phys. Rev. D* **66** 010001 (2002).

- E:** Lach, J.: *The experiments and publications from the fixed-target program with the Tevatron*. Comments Nucl. Part. Phys. 2 A399–A420 (2002).
- E:** Scimemi, I.: *Heavy baryons and electromagnetic decays*. Nucl. Phys. B Proc. Suppl. 93 46–49 (2001). IFIC-00-64, [arXiv:hep-ph/0010285](#).
- A:** Schwartz, Alan J., E791 Collaboration: *CP violation and mixing results from FNAL E791*. Nucl. Phys. B Proc. Suppl. 99 276–283 (2001). UCTP-112-00, [arXiv:hep-ex/0012006](#).
- T:** Vaandering, Eric Wayne: *Mass and Width Measurements of Σ_c Baryons*. doi:10.2172/1421442 (2000). FERMILAB-THESIS-1999-27, UMI-99-69417 .
- E:** Vaandering, Eric W., FOCUS Collaboration: *Recent charmed baryon results from FOCUS*. AIP Conf. Proc. 549 583–587 (2000).
- A:** Summers, Donald Joseph and Bracker, Stephen B. and Gounder, Krishnaswamy and Hendrix, Kevin: *An Efficient multiprocessor management system for event parallel computing*. (2000). UMS-HEP-96-002, [arXiv:hep-ex/0007003](#).
- E:** Ratti, S. P.: *Charmed baryons photoproduced in FOCUS at Fermilab*. (2000).
- E:** Groom, Donald E. and others, Particle Data Group Collaboration: *Review of particle physics*. Particle Data Group. Eur. Phys. J. C 15 1–878 (2000).
- E:** Link, J. M. and others, FOCUS Collaboration: *Measurements of the $\Sigma_c(c)0$ and $\Sigma_c^{++}(c)$ mass splittings*. Phys. Lett. B 488 218–224 (2000). FERMILAB-PUB-00-096-E, [arXiv:hep-ex/0005011](#).
- A:** Aitala, E. M and others, E791 Collaboration: *Asymmetries in the production of $\Lambda_b(c)^+$ and $\Lambda_b(c)^-$ baryons in 500-GeV/c π - nucleon interactions*. Phys. Lett. B 495 42–48 (2000). FERMILAB-PUB-00-025-E, CBPF-NF-062-00, [arXiv:hep-ex/0008029](#).
- E:** Chakrabarti, B. and Bhattacharya, A. and Banerjee, S. N.: *On some properties of heavy flavor baryons*. Phys. Scripta 61 49–51 (2000).
- E:** Banuls, M. C. and Pich, A. and Scimemi, I.: *Electromagnetic decays of heavy baryons*. Phys. Rev. D 61 094009 (2000). FTUV-99-75, IFIC-99-78, [arXiv:hep-ph/9911502](#).
- E:** Appel, Jeffrey A. and Brown, Charles N. and Cooper, Peter S. and White, Herman B. (Eds.): *Symposium in Celebration of the Fixed Target Program with the Tevatron*. (2000). FERMILAB-CONF-01-386, [arXiv:hep-ex/0008076](#).
- T:** Zheng, Jiu: *Studies of charmed baryons decaying to $\Lambda_b(c)^+ (n \pi)$* . (1999). CORNELL-LEPP-THESIS-99-4, UMI-99-35325 .
- E:** Ezhela, V. V. and others: *A Guide to Experimental Particle Physics Literature: 1994 - 1998*. (1999). LBL-90-1999.
- A:** Aitala, E. M. and others, E791 Collaboration: *Correlations between D and anti- D mesons produced in 500-GeV/c π - nucleon interactions*. Eur. Phys. J. direct 1 4 (1999). FERMILAB-PUB-98-297-E, FERMILAB-REPORT-P-PUB-98-297-E, [arXiv:hep-ex/9809029](#).
- E:** Rubinstein, R. (Eds.): *Fermilab research program 1998: Workbook*. (1998). FERMILAB-WORKBOOK-1998.
- E:** Caso, C. and others, Particle Data Group Collaboration: *Review of particle physics*. Particle Data Group. Eur. Phys. J. C 3 1–794 (1998).
- T:** Tripathi, Arun K.: *Search for $D^0 - \bar{D}^0$ Mixing Using Semileptonic Decays*. doi:10.2172/1421722 (1997). FERMILAB-THESIS-1997-27, UMI-97-31730 .
- T:** Thilmann, Oliver: *Operation of a ring imaging Cerenkov detector and measurement of the total c anti- c production cross-section in 340-GeV/c Σ - nucleus interactions*. (1997).
- A:** Slaughter, J.: *Hadroproduction of charm in FNAL E769 and E791*. AIP Conf. Proc. 412 648–653 (1997).
- E:** Rubinstein, R. (Eds.): *Fermilab research program 1997: Workbook*. (1997). FERMILAB-WORKBOOK-1997.
- T:** Manacero, Aleardo: *Performance prediction of parallel programs through execution graph simulation*. doi:10.2172/1421702 (1997). FERMILAB-THESIS-1997-62 .
- T:** Jie, Qiuming: *Observation of the Charmed Meson Decay $D^0 \rightarrow K^- \pi^+ \pi^0$* . (1997). FERMILAB-MASTERS-1997-02 .
- E:** Engelfried, Jurgen: *Charm and bottom production in FNAL fixed target experiments*. (1997). FERMILAB-CONF-97-107.
- E:** Dropmann, F.: *Charmed baryons*. Frascati Phys. Ser. 7 197–204 (1997).
- E:** Caruso, Francisco: *A laboratory in reflection*. (1997). CBPF-CS-017-97.
- T:** Witchey, Nicholas James: *Search for flavor changing neutral current decays of charm mesons*. (1996). FERMILAB-THESIS-1996-72, UMI-96-31004 .
- E:** Galic, H. and others, Particle Data Group LBL-91 Collaboration: *Current Experiments in Particle Physics. 1996 Edition*. doi:10.2172/469140 (1996). SLAC-R-631, LBL-91-1996, UC-414.
- E:** Chan, Lai-Him: *Extended isoscalar - flavor - spin symmetries for baryons with a single spectator isoscalar quark*. Phys. Rev. D 54 6890–6896 (1996). PRINT-96-240 (LOUISIANA-STATE).
- A:** Bracker, Stephen B. and Gounder, Krishnaswamy and Hendrix, Kevin and Summers, Donald Joseph: *A Simple multiprocessor management system for event parallel computing*. IEEE Trans. Nucl. Sci. 43 2457–2464 (1996). SLAC-BABAR-NOTE-128, UMS-HEP-95-002, [arXiv:hep-ex/9511009](#).

9. Adamivich, M. I. and others, WA89 Collaboration: *Measurement of the Ω_c^0 lifetime*. *Phys. Lett. B* **358** 151–161 (1995). [arXiv:hep-ex/9507004](#).

71 Citations:

- E:** Schwartz, A. J.: *Charm lifetime measurements at Belle II*. (2024). University of Cincinnati preprint UCHEP-24-02, [arXiv:2405.10394 \[hep-ex\]](#).
- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).
- E:** Crede, Volker and Yelton, John: *70 years of hyperon spectroscopy: a review of strange Ξ , Ω baryons, and the spectrum of charmed and bottom baryons*. *Rept. Prog. Phys.* **87** 106301 (2024). [arXiv:2502.08815 \[hep-ex\]](#).
- E:** Farhadi, Mansour and Moosavi Nejad, S. Mohammad and Armat, A.: *Radiative and semileptonic decay widths of heavy ground state baryons in diquark model*. *Eur. Phys. J. A* **59** 171 (2023).
- E:** Abudinen, Fernando Jesus and others, Belle-II Collaboration: *Measurement of the Ω_c^0 lifetime at Belle II*. *Phys. Rev. D* **107** L031103 (2023). Belle II Preprint 2022-005, KEK Preprint 2022-26, [arXiv:2208.08573 \[hep-ex\]](#).
- E:** Yelton, John M.: *Unanswered Questions in Charmed Baryon Physics*. (2022). [arXiv:2208.03340 \[hep-ph\]](#).
- E:** Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2022** 083C01 (2022).
- E:** Duan, Hui-Hui and Liu, Yong-Lu and Huang, Ming-Qiu: *Semileptonic decay of $\Omega_c^0 \rightarrow \Xi^- l^+ \nu_l$ from light-cone sum rules*. *Eur. Phys. J. C* **81** 168 (2021). [arXiv:2010.16176 \[hep-ph\]](#).
- E:** Cheng, Hai-Yang: *The strangest lifetime: A bizarre story of $\tau(\Omega_c^0)$* . [doi:10.1016/j.scib.2021.11.025](#) (2021). [arXiv:2111.09566 \[hep-ph\]](#).
- E:** Yelton, J. M.: *The spectroscopy of singly-heavy hadrons*. [doi:10.1142/9789811219313%5F0001](#) (2020).
- E:** Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *PTEP* **2020** 083C01 (2020).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons*. (2020).
- E:** Koppenburg, Patrick: *Beauty 2019 — Conference summary*. *18th International Conference on B-Physics at Frontier Machines. Proceedings of Science Beauty2019* 058 (2020). [arXiv:2001.11796 \[hep-ex\]](#).
- E:** Hu, Shiyong and Meng, Guanbao and Xu, Fanrong: *Hadronic weak decays of the charmed baryon Ω_c* . *Phys. Rev. D* **101** 094033 (2020). [arXiv:2003.04705 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- E:** Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Rev. D* **98** 030001 (2018).
- E:** Aaij, Roel and others, LHCb Collaboration: *Measurement of the Ω_c^0 baryon lifetime*. *Phys. Rev. Lett.* **121** 092003 (2018). LHCb-PAPER-2018-028, CERN-EP-2018-175, LHCb-PAPER-2018-028, [arXiv:1807.02024 \[hep-ex\]](#).
- E:** Chen, Hua-Xing and Chen, Wei and Liu, Xiang and Liu, Yan-Rui and Zhu, Shi-Lin: *A review of the open charm and open bottom systems*. *Rept. Prog. Phys.* **80** 076201 (2017). [arXiv:1609.08928 \[hep-ph\]](#).
- E:** Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **40** 100001 (2016).
- E:** Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Chin. Phys. C* **38** 090001 (2014).
- E:** Crede, V. and Roberts, W.: *Progress towards understanding baryon resonances*. *Rept. Prog. Phys.* **76** 076301 (2013). [arXiv:1302.7299 \[nucl-ex\]](#).
- E:** Beringer, J. and others, Particle Data Group Collaboration: *Review of Particle Physics (RPP)*. *Phys. Rev. D* **86** 010001 (2012). SLAC-REPRINT-2014-001.
- E:** Nakamura, K. and others, Particle Data Group Collaboration: *Review of particle physics*. *J. Phys. G* **37** 075021 (2010). FERMILAB-PUB-10-665-PPD.
- E:** Amsler, Claude and others, Particle Data Group Collaboration: *Review of Particle Physics*. *Phys. Lett. B* **667** 1–1340 (2008).
- E:** Iori, M. and others, SELEX Collaboration: *Measurement of the Ω_c^0 Lifetime*. (2007). FERMILAB-PUB-07-011-E, [arXiv:hep-ex/0701021](#).
- E:** Aubert, Bernard and others, BaBar Collaboration: *Production and decay of $\Omega_c^0(c)$* . *Phys. Rev. Lett.* **99** 062001 (2007). SLAC-PUB-12398, BABAR-PUB-07-010, [arXiv:hep-ex/0703030](#).
- E:** Yao, W. M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. *J. Phys. G* **33** 1–1232 (2006).
- E:** Aubert, Bernard and others, BaBar Collaboration: *A Study of production and decays of $\Omega_c^0(c)$ baryons at BaBar*. (2005). SLAC-PUB-11323, BABAR-CONF-05-10, BABAR-CONF-05-010, [arXiv:hep-ex/0507011](#).
- E:** Eidelman, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Lett. B* **592** 1 (2004).

- E:** Iori, M., SELEX Collaboration: *Measurement of the Omega/c0 lifetime*. *Frascati Phys. Ser.* 36 125–131 (2004).
- E:** French, B. and Quercigh, E.: *Physics with hadron and photon beams at the SPS*. *Phys. Rept.* 403–404 69–90 (2004).
- T:** Ayan, Ahmet Sedat: *The CMS forward calorimeter prototype design studies and Omega(c)0 search at E781 experiment at Fermilab*. doi:10.2172/875582 (2004). FERMILAB-THESIS-2004-36, UMI-31-26293-MC .
- E:** Link, J. M. and others, FOCUS Collaboration: *Measurement of the Ω_c^0 Lifetime*. *Phys. Lett. B* 561 41–48 (2003). FERMILAB-PUB-03-034-E, arXiv:hep-ex/0302033.
- T:** Akgun, Ugur: *CMS HF calorimeter PMTs and Xi(c)+ lifetime measurement*. doi:10.2172/15020228 (2003). UMI-31-14464, FERMILAB-THESIS-2003-43 .
- E:** Hagiwara, Kaoru and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Phys. Rev. D* 66 010001 (2002).
- T:** Vorwalter, Klaus: *Determination of the pion charge radius with a silicon microstrip detector system*. doi:10.2172/1421419 (2000). FERMILAB-THESIS-2000-45 .
- T:** Simon, J.: *Measurement of the electromagnetic radius of the Σ^- at 600 GeV/c*. doi:10.2172/1421420 (2000). FERMILAB-THESIS-2000-44 .
- E:** Groom, Donald E. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Eur. Phys. J. C* 15 1–878 (2000).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* 531 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- E:** Semenov, S. V.: *Physics of charmed hadrons*. *Phys. Usp.* 42 847–869 (1999).
- T:** Bishai, Mary: *A Study of semileptonic and two-body decays of charm strange baryons: A Search for CP violation in Ξ hyperon decays and a study of surface treated planar microstrip gas chambers*. (1999). UMI-99-51916 .
- E:** Yelton, J. M.: *Light and charmed hadron spectroscopy*. (1998).
- E:** Caso, C. and others, Particle Data Group Collaboration: *Review of particle physics*. *Particle Data Group. Eur. Phys. J. C* 3 1–794 (1998).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam*. (1998).
- T:** Gough Eschrich, Ivo M.: *Measurement of the sigma- charge radius at the Fermilab Hyperon beam..* doi:10.2172/1421522 (1998). FERMILAB-THESIS-1998-62 .
- T:** Volkemer, Burkhard: *Development and structure of central proportional wire chambers and determination of the lifetime of the charmed baryon Λ_c^+ , measurement of the production of D^\pm and Λ_c^+ , and an upper limit on the production of the Ξ_c^+ in a 330 GeV/c Σ^- hyperon beam*. (1997).
- T:** Fournier, Alain: *Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c*. (1997).
- A:** Drophmann, F.: *Charmed baryons*. *Frascati Phys. Ser.* 7 197–204 (1997).
- A:** Chudakov, E. A.: *Heavy quark in hadrons*. *Nucl. Phys. A* 623 71C–80C (1997).
- E:** Blaylock, G.: *An incomplete review of experimental charm physics*. *AIP Conf. Proc.* 412 101–109 (1997).
- E:** Bellini, G. and Bigi, Ikaros I. Y. and Dornan, P. J.: *Lifetimes of charm and beauty hadrons*. *Phys. Rept.* 289 1–155 (1997). PRINT-97-005 (MILAN), IC-HEP-96-14, UND-HEP-96BIG02.
- T:** Wittmann, Eva: *New exclusive decays of the charm strange baryon Ω_c^0 and evidence of the unobserved Ω_c^{0*} in 345 GeV/c Σ^- nucleus interactions*. (1996).
- E:** Singer, Paul and Zhang, Da-Xin: *Weak radiative decays of beauty baryons*. *Phys. Lett. B* 383 351–354 (1996). TECHNION-PH-96-8, arXiv:hep-ph/9606343.
- A:** Siebert, H. W., WA89 Collaboration: *Hyperons and charm baryons at CERN*. *Nucl. Phys. B Proc. Suppl.* 50 162–167 (1996).
- E:** Semenov, S.: *Hadrons with heavy quarks (experimental review)*. *Phys. Atom. Nucl.* 59 1514–1524 (1996). ITEP-18-96.
- E:** Rosner, Jonathan L.: *Enhancement of the Lambda(b) decay rate*. *Phys. Lett. B* 379 267–271 (1996). CERN-TH-96-24, EFI-96-03, arXiv:hep-ph/9602265.
- A:** Ren, Z., WA89 Collaboration: *Study of the Omega/c0 hadronic weak decays in the CERN hyperon beam experiment WA89*. (1996).
- E:** Ratti, S. P.: *Charm physics in fixed target experiments*. *Frascati Phys. Ser.* 5 155–170 (1996).
- A:** Muller, U., WA89 Collaboration: *Search for charmed-strange baryons in experiment WA89*. *Nucl. Instrum. Meth. A* 371 192–194 (1996).
- E:** Moinester, Murray A.: *How to search for doubly charmed baryons and tetraquarks*. *Z. Phys. A* 355 349–362 (1996). TAUP-2255-95, arXiv:hep-ph/9506405.
- T:** Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons*. doi:10.2172/1372289 (1996). FERMILAB-THESIS-1996-76 .
- E:** Martinelli, G.: *Theoretical review of B physics*. *Nucl. Instrum. Meth. A* 384 241–252 (1996). ROME-1155-1996, ROME-PREP.-1155-96, arXiv:hep-ph/9610455.

- T:** Heidrich, M.: *Entwicklung eines Übergangsstrahlungszählers basierend auf Gasmikrostreifendetektoren zur ersten Untersuchung von Σ - e -Streuung am Hyperonenstrahl des CERN.* (May 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Haller, Thomas: *Rekonstruktion von Charm-Baryonen in Zerfallskanälen mit Σ^- Hyperonen und Lebensdauermessung des Charm-Baryons Ξ_c^0 im Hyperonenstrahl experiment WA89 am CERN.* (December 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian).* (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Chudakov, E. A.: *Strangeness, charm and beauty in hadrons.* (1996).
- E:** Cheung, W. K., Focus, E687 Collaboration: *Fermilab E687 results and future high statistics charm experiment FOCUS / E831.* *Nucl. Phys. B Proc. Suppl.* **50** 154–161 (1996). FERMILAB-CONF-95-376-E.
- E:** Browder, Thomas E. and Honscheid, Klaus and Pedrini, Daniele: *Nonleptonic decays and lifetimes of b quark and c quark hadrons.* *Ann. Rev. Nucl. Part. Sci.* **46** 395–469 (1996). UH-511-848-96, OHSTPY-HEP-E-96-006, [arXiv:hep-ph/9606354](https://arxiv.org/abs/hep-ph/9606354).
- A:** Berat, Corrine: *Contribution to the experimental study of charmed hadron production with a hyperon beam.* (1996). ISN-96-114.
- E:** Altarelli, Guido and Martinelli, G. and Petrarca, S. and Rapuano, F.: *Failure of local duality in inclusive nonleptonic heavy flavor decays.* *Phys. Lett. B* **382** 409–414 (1996). CERN-TH-96-77, ROME1-1143-96, [arXiv:hep-ph/9604202](https://arxiv.org/abs/hep-ph/9604202).
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0 .* (December 1995). Ph.D. Thesis, Universität Heidelberg.
8. Adamovich, M. I. and others, WA89 Collaboration: *Measurement of the polarization of Λ , anti- Λ , Σ^+ and Ξ^- produced in a Σ^- beam of 330-GeV/c.* *Z. Phys. A* **350** 379–386 (1995). [arXiv:hep-ex/9409001](https://arxiv.org/abs/hep-ex/9409001).

56 Citations:

- E:** Nogueira-Santos, Marcelo G. L. and Barros, Celso C.: *Polarization in low energy kaon-hyperon interaction.* *Int. J. Mod. Phys. E* **29** 2050013 (2020). [arXiv:2005.08943](https://arxiv.org/abs/2005.08943) [hep-ph].
- E:** Chen, Kai-bao and Liang, Zuo-tang and Song, Yu-kun and Wei, Shu-yi: *Spin alignment of vector mesons in high energy pp collisions.* *Phys. Rev. D* **102** 034001 (2020). [arXiv:2002.09890](https://arxiv.org/abs/2002.09890) [hep-ph].
- E:** Santos, M. G. L. N. and Barros, C. C.: *Low energy kaon-hyperon interaction.* *Phys. Rev. C* **99** 025206 (2019). [arXiv:1810.03004](https://arxiv.org/abs/1810.03004) [hep-ph].
- E:** Chen, Kai-bao and Yang, Wei-hua and Wei, Shu-yi and Liang, Zuo-tang: *Tensor polarization dependent fragmentation functions and e^+e^- to $V \pi X$ at high energies.* *Phys. Rev. D* **94** 034003 (2016). [arXiv:1605.07790](https://arxiv.org/abs/1605.07790) [hep-ph].
- E:** Barros, Jr., C. C.: *Hyperon Polarization in Heavy ion Collisions.* *J. Phys. Conf. Ser.* **509** 012056 (2014).
- E:** Nurushev, Sandibek B. and Runtso, Mikhail F. and Strikhanov, Mikhail N.: *Introduction to polarization physics.* [doi:10.1007/978-3-642-32163-4](https://doi.org/10.1007/978-3-642-32163-4) (2013).
- E:** Noda, Hujio and Tashiro, Tsutomu and Nakariki, Shin-Ichi: *Anti-hyperon Polarization in pA and $\Sigma^- A$ Collisions and Intrinsic Antidiquark State in Incident Baryon.* *Int. J. Mod. Phys. E* **21** 1250001 (2012). [arXiv:1105.1588](https://arxiv.org/abs/1105.1588) [hep-ph].
- E:** Barros, Jr., Celso de Camargo and Hama, Yogi: *Λ and $\bar{\Lambda}$ polarization in Au-Au collisions at RHIC.* *Phys. Lett. B* **699** 74–77 (2011). [arXiv:0712.3447](https://arxiv.org/abs/0712.3447) [hep-ph].
- E:** Barros, Jr., C. C.: *Polarization effects in heavy ion collisions.* *AIP Conf. Proc.* **1296** 274–277 (2010).
- E:** Siebert, H. W.: *The challenge of polarizations in hadronic hyperon production.* *Eur. Phys. J. ST* **162** 147–153 (2008).
- E:** Barros, Jr., Celso de Camargo and Hama, Yogi: *Antihyperon polarization in high-energy inclusive reactions.* *Int. J. Mod. Phys. E* **17** 371–392 (2008). [arXiv:hep-ph/0507013](https://arxiv.org/abs/hep-ph/0507013).
- E:** Alikhanov, I. and Grebenyuk, O.: *Quark scattering model of the transverse Λ polarization and quark recombination approach.* *EPL* **83** 41001 (2008).
- E:** Sanchez-Lopez, J. L. and others, SELEX Collaboration: *Polarization of Λ^0 and $\bar{\Lambda}^0$ inclusively produced by 610-GeV/c Σ^- and 525-GeV/c proton beams.* (2007). FERMILAB-PUB-07-312-E, UASLP-IF-07-003, [arXiv:0706.3660](https://arxiv.org/abs/0706.3660) [hep-ex].
- E:** Alikhanov, I. and Grebenyuk, O.: *Transverse Λ polarization in inclusive photoproduction: Quark recombination model.* (2007). [arXiv:0706.4364](https://arxiv.org/abs/0706.4364) [hep-ph].
- T:** Sanchez-Lopez, Jose Luis: *Polarization of Λ and antilambda0 produced in sigma- and proton - nucleon collisions.* (2006). FERMILAB-MASTERS-2006-06 .
- T:** Grube, B.: *A trigger control system for COMPASS and a measurement of the transverse polarization of Λ and Ξ hyperons from quasi-real photo-production.* (2006). CERN-THESIS-2006-114.

- A:** Adamovich, M. I. and others, WA89 Collaboration: A measurement of Λ polarization in inclusive production by Σ^- of 340-GeV/c in C and Cu targets. *Eur. Phys. J. C* **32** 221–228 (2004).
- E:** Dong, Hui and Liang, Zuo-tang: Hyperon polarization in different inclusive production processes in unpolarized high-energy hadron hadron collisions. *Phys. Rev. D* **70** 014019 (2004). [arXiv:hep-ph/0403041](#).
- A:** Alexandrov, Yu., WA89 Collaboration: A MEASUREMENT OF A POLARIZATION IN INCLUSIVE PRODUCTION BY Σ^- 340 GeV /c IN C AND Cu TARGETS. (2004).
- E:** Felix, J.: Baryon polarization. *AIP Conf. Proc.* **670** 354–361 (2003).
- E:** Engelfried, J. and others, SELEX Collaboration: Recent Results on Charm and Hyperon Physics from SELEX. Frascati Phys. Ser. 20 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, [arXiv:hep-ex/0012004](#).
- T:** Naumov, Dmitry V.: Production of strange hadrons and polarization of Lambda and anti-Lambda hyperons in the NOMAD experiment. (2001). CERN-THESIS-2001-071.
- E:** Kubo, K. I.: Nuclear and Hadronic Reaction Mechanisms Producing Spin Asymmetry. *Pramana* **57** 379–387 (2001).
- E:** Kubo, K.: High energy hadron spin observables: Microscopic QRC model and spin asymmetry. *AIP Conf. Proc.* **570** 119 (2001).
- E:** Abramov, Victor V.: Universal scaling behavior of the transverse polarization for inclusively produced hyperons in hadron hadron collisions. (2001). IHEP-2001-13, [arXiv:hep-ph/0111128](#).
- E:** Liang, Zuo-tang and Boros, C.: Single spin asymmetries in inclusive high-energy hadron hadron collision processes. *Int. J. Mod. Phys. A* **15** 927–982 (2000). SDU-HEP-0002, [arXiv:hep-ph/0001330](#).
- E:** Aleev, A. N. and others, EXCHARM Collaboration: A Measurement of the transverse polarization of Lambda hyperons produced in n C reactions in the EXCHARM experiment. *Eur. Phys. J. C* **13** 427–432 (2000). JINR-EI-99-177.
- A:** Engelfried, Jurgen: Experimental techniques. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- E:** Teodorescu, L. and others: Λ polarization in associated K^+ - Λ electro-production. *Nucl. Phys. A* **658** 362–371 (1999). DAPNIA-SPHN-99-64.
- A:** Siebert, H. W., WA89 Collaboration: Studies of charm production and a search for exotic states at the CERN SPS hyperon beam. *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- T:** Nelson, Kenneth Day: Polarization of $\Lambda(0)$ inclusively produced by a 610-GeV/c Sigma- beam. [doi:10.2172/1421506](#) (1999). [FERMILAB-THESIS-1999-55](#), [UMI-99-33401](#) .
- A:** Muller, U. and others: The Omega RICH in the CERN hyperon beam experiment. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- E:** Kubo, K. and Yamamoto, Y. and Toki, H.: New Mechanisms for the Anomalous Spin Observables in High-Energy Hyperon Productions. *Prog. Theor. Phys.* **101** 615–625 (1999).
- E:** Felix, J.: Description of Λ^0 polarization. *AIP Conf. Proc.* **490** 339–342 (1999).
- T:** Zacarias, Galileo Dominguez: Angular distribution of $K_s^0 \rightarrow \pi^+\pi^-$ in E781. (1998). [FERMILAB-MASTERS-1998-04](#) .
- T:** Newbold, David Michael: Inclusive hyperon polarisation studies at the CERN SPS hyperon beam. (1998).
- T:** Gough Eschrich, Ivo M.: Measurement of the sigma- charge radius at the Fermilab Hyperon beam.. [doi:10.2172/1421522](#) (1998). [FERMILAB-THESIS-1998-62](#) .
- E:** Yamamoto, Y. and Kubo, K. and Toki, H.: Quark recombination model for spin polarization in high energy inclusive hadron reactions. *Prog. Theor. Phys.* **98** 95–128 (1997).
- T:** Volkemer, Burkhard: Development and structure of central proportional wire chambers and determination of the lifetime of the charmed baryon Λ_c^+ , measurement of the production of D^\pm and Λ_c^+ , and an upper limit on the production of the Ξ_c^+ in a 330 GeV/c Σ^- hyperon beam. (1997).
- T:** Thilmann, Oliver: Operation of a ring imaging Cerenkov detector and measurement of the total c anti-c production cross-section in 340-GeV/c Sigma- nucleus interactions. (1997).
- E:** Liang, Zuo-tang and Boros, C.: Hyperon polarization and single spin left-right asymmetry in inclusive production processes at high-energies. *Phys. Rev. Lett.* **79** 3608–3611 (1997). [arXiv:hep-ph/9708488](#).
- T:** Fournier, Alain: Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c. (1997).
- E:** Woods, D. M. and Border, P. M. and Ciampa, D. P. and Guglielmo, G. and Heller, Kenneth J. and Wallace, N. B. and Johns, K. A. and Gao, Y. T. and Longo, M. J. and Rameika, R.: Polarization of Xi- and Omega- hyperons produced from neutral beams. *Phys. Rev. D* **54** 6610–6619 (1996). PRINT-96-244 (MINNESOTA).
- T:** Wittmann, Eva: New exclusive decays of the charm strange baryon Ω_c^0 and evidence of the unobserved Ω_c^{0*} in 345 GeV/c Σ^- nucleus interactions. (1996).
- A:** Müller, U and others, WA89 Collaboration: The Recent performance of the Omega RICH detector in experiment WA89 at CERN. *Nucl. Instrum. Meth. A* **371** 27–32 (1996). CERN-PPE-95-117.
- T:** Masciocchi, Silvia: Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons. [doi:10.2172/1372289](#) (1996). [FERMILAB-THESIS-1996-76](#) .

- T:** Haller, Thomas: *Rekonstruktion von Charm-Baryonen in Zerfallskanälen mit Σ^- Hyperonen und Lebensdauermessung des Charm-Baryons Ξ_c^0 im Hyperonenstrahlexperiment WA89 am CERN.* (December 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian).* (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Chudakov, E. A., WA89 Collaboration: *Measurement of the polarization of hyperons produced in a hyperon beam.* *Nucl. Phys. B Proc. Suppl.* **50** 223–227 (1996).
- T:** Woods, David McDill: *A Study of Polarization in Hyperon Production Processes.* doi:10.2172/1433346 (1995). FERMILAB-THESIS-1995-70, UMI-95-23991 .
- A:** Adamovich, M. I. and others, WA89 Collaboration: *New data on the Omega/c0 from the CERN hyperon beam experiment WA89.* (1995).
- T:** Schmitt, Lars: *Investigation of the lifetime of the doubly strange, charmed baryon Ω_c^0 at the hyperon beam experiment WA89.* (1995).
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0 .* (December 1995). Ph.D. Thesis, Universität Heidelberg.
- E:** Liang, Zuo-tang: *Single spin asymmetries in inclusive high-energy hadron hadron collision processes.* (1995). FUB-HEP-96-5, arXiv:hep-ph/9604293.
- T:** Carvalho De Gouvea, Andre Luiz: *Estudo da Polarizacao dos Hiperons Ξ^- E Ω^- .* doi:10.2172/1372338 (1995). FERMILAB-MASTERS-1995-03 .
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkowdetektors und Suche nach der exotischen U(3100)-Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
7. Abatzis, S. and others, WA94 Collaboration: *Strange particle production in sulphur-sulphur interactions at 200-GeV/c per nucleon.* *Nucl. Phys. A* **566** 499C–502C (1994).
- 16 Citations:
- E:** Siddikov, Marat and Schmidt, Iván: *Strangeness production in high-multiplicity events.* *Phys. Rev. D* **104** 016024 (2021). arXiv:2101.00461 [hep-ph].
- A:** Engelfried, Jurgen: *Experimental techniques.* *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- E:** Bass, S. A. and Gyulassy, M. and Stoecker, Horst and Greiner, W.: *Signatures of quark gluon plasma formation in high-energy heavy ion collisions: A Critical review.* *J. Phys. G* **25** R1–R57 (1999). DOE-ER-40561-11, arXiv:hep-ph/9810281.
- T:** Enstrom, Daniel: *Astrophysical aspects of quark gluon plasma.* (1998). LTU-EX-97-366-SE, arXiv:hep-ph/9802337.
- T:** Thilmann, Oliver: *Operation of a ring imaging Cerenkov detector and measurement of the total c anti-c production cross-section in 340-GeV/c Sigma- nucleus interactions.* (1997).
- E:** Harris, John W. and Muller, Berndt: *The Search for the quark - gluon plasma.* *Ann. Rev. Nucl. Part. Sci.* **46** 71–107 (1996). DUKE-TH-96-105, arXiv:hep-ph/9602235.
- E:** Buys, A.: *RICH in operating experiments.* *Nucl. Instrum. Meth. A* **371** 1–7 (1996).
- E:** Topor Pop, V. and Gyulassy, M. and Wang, X. N. and Andrighetto, A. and Morando, M. and Pellegrini, F. and Ricci, R. A. and Segato, G.: *Strangeness enhancement in p + A and S + A interactions at SPS energies.* *Phys. Rev. C* **52** 1618–1629 (1995). CU-TP-676, DFPD-95-NP-20, arXiv:nucl-th/9504003.
- E:** Sollfrank, Josef and Heinz, Ulrich W.: *The Role of strangeness in ultrarelativistic nuclear collisions.* doi:10.1142/9789812830661%5F0010 (1995). HU-TFT-95-27, arXiv:nucl-th/9505004.
- E:** Li, Guo-Qiang and Ko, C. M.: *Subthreshold kaon production and the nuclear equation of state.* *Phys. Lett. B* **349** 405–410 (1995). TAMU-NTH-94-13, arXiv:nucl-th/9411024.
- E:** Kacperski, J. L.: *Strangeness enhancement in p - A and A-A collisions in the frame of independent scattering scheme.* *Acta Phys. Polon. B* **26** 35–42 (1995).
- E:** Dover, C. B.: *Aspects of strangeness.* *Nucl. Phys. A* **590** 333C–345C (1995).
- T:** Walder, Georg: *Employment of a ring imaging Cherenkov detector to look at lambda (c)+ decays.* (1994).
- A:** Topor Pop, V. and Andrighetto, A. and Morando, M. and Pellegrini, F. and Ricci, R. A. and Segato, G., WA94 Collaboration: *Strangeness production in p p, p A, A A interactions at SPS energies: HIJING approach.* (1994). DFPD-94-NP-42, arXiv:hep-ph/9407262.
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkowdetektors und Suche nach der exotischen U(3100)-Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
- E:** Letessier, Jean and Rafelski, Johann and Tounsi, Ahmed: *Strange particle abundance in QGP formed in 200-GeV/a nuclear collisions.* *Phys. Lett. B* **323** 393–400 (1994). PAR-LPTHE-94-02, arXiv:hep-ph/9711345.

6. Siebert, H. W. and others: *The Omega RICH*. *Nucl. Instrum. Meth. A* 343 60–67 (1994).

68 Citations:

- E:** He, Rui and others: *Advances in nuclear detection and readout techniques*. *Nucl. Sci. Tech.* 34 205 (2023).
- E:** Tserruya, I. and Aoki, K. and Woody, C.: *Hadron blind Cherenkov counters*. *Nucl. Instrum. Meth. A* 970 163765 (2020). [arXiv:2003.12858](https://arxiv.org/abs/2003.12858) [physics.ins-det].
- E:** Nappi, Eugenio: *Development of photocathodes for gaseous counters: From UV to visible*. *Nucl. Instrum. Meth. A* 970 163424 (2020).
- E:** Forty, Roger and Ullaland, Olav: *Particle Identification: Time-of-Flight, Cherenkov and Transition Radiation Detectors*. doi:10.1007/978-3-030-35318-6%5F7 (2020).
- E:** Halepoto, I. A. and others: *Investigation of External QE of P3DDDT Photocathode for use in Gaseous UV Photon Detectors*. *SindhUniv. Res. Jour. (Sci. Ser.)* 51 345-350 (2019).
- E:** Halepoto, I. A. and others: *Quantum Efficiency of P3HT a new Air-Stable Photocathode for use in Gaseous UV Photon Detectors*. *SindhUniv. Res. Jour. (Sci. Ser.)* 51 163-168 (2019).
- E:** Tessarotto, Fulvio: *Evolution and Recent Developments of the Gaseous Photon Detectors Technologies*. *Nucl. Instrum. Meth. A* 912 278–286 (2018). [arXiv:1710.09309](https://arxiv.org/abs/1710.09309) [physics.ins-det].
- E:** Tessarotto, Fulvio: *Status and perspectives of gaseous photon detectors*. *Nucl. Instrum. Meth. A* 876 225–232 (2017).
- E:** Denisov, S. P.: *Use of Cherenkov counters in experiments at accelerators for particle identification*. *Phys. Usp.* 58 480–485 (2015).
- E:** KhaliqRajpar, A. and Moghal, A.H. and Ismaili, I.A. and Grazeulvacious, J.V. and Krebs, Fredrick C. and Laghari1, B.A and Ahmed, Iftekhar and Halepoto, Imran Ali: *Investigation of New Organic Photocathodes in Vacuum for Position Sensitive Gaseous Detectors*. *IOSR Journal of Applied Physics* 6 33-37 (2014).
- E:** Ullaland, O. and Forty, R: *Landolt-Börnstein – Groups I Elementary Particles, Nuclei and Atoms*. doi:10.1007/978-3-642-03606-4%5F7 (2011).
- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* 639 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052](https://arxiv.org/abs/1009.0052) [physics.ins-det].
- E:** Dalla Torre, S.: *Status and perspectives of gaseous photon detectors*. *Nucl. Instrum. Meth. A* 639 111–116 (2011).
- E:** Abbon, P. and others: *Particle identification with COMPASS RICH-1*. *Nucl. Instrum. Meth. A* 631 26–39 (2011).
- T:** Rocco, Elena: *Development of a gaseous photon detector for Cherenkov imaging applications*. (2010). CERN-THESIS-2010-053.
- E:** Alexeev, M. and Alfonsi, M. and Birsa, R. and Bradamante, F. and others: *Development of THGEM-based photon detectors for Cherenkov imaging counters*. *Journal of Instrumentation* 5 03009 (2010).
- E:** Alexeev, M. and others: *The quest for a third generation of gaseous photon detectors for Cherenkov imaging counters*. *Nucl. Instrum. Meth. A* 610 174–177 (2009).
- E:** Dalla Torre, S. and Levorato, S. and Menon, G. and Polak, J. and Steiger, L. and Sulc, M. and Tessarotto, F.: *Remote alignment of large mirror array for RICH detectors*. *Nucl. Instrum. Meth. A* 595 220–223 (2008).
- E:** Alexeev, M. and others: *Micropattern gaseous photon detectors for Cherenkov imaging counters*. doi:10.1109/NSSMIC.2008.4774663 (2008).
- A:** Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* 857 340–346 (2006).
- E:** Hohne, C. and Kharlov, Yu. and Khmelnikov, V. and Polishchuk, B. and Rykalin, V. and Sadovsky, S., CBM Collaboration: *Concept for a RICH detector for the CBM experiment at FAIR in Darmstadt*. *Nucl. Instrum. Meth. A* 553 91–95 (2005).
- E:** Sauli, F.: *From bubble chambers to electronic systems: 25 years of evolution in particle detectors at CERN (1979-2004)*. *Phys. Rept.* 403-404 471–504 (2004). CERN-PH-EP-2004-040.
- A:** Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](https://arxiv.org/abs/physics/0312061).
- E:** D’Ambrosio, C. and Fernandez, L. and Laub, M. and Piedigrossi, D.: *Precision optical systems for the new generation of ring imaging Cherenkov detectors in high energy physics experiments*. *Nucl. Instrum. Meth. A* 478 344–347 (2002).
- T:** Laub, Martin: *Development of opto-mechanical tools and procedures for the new generation of RICH-detectors at CERN*. (2001). CERN-THESIS-2006-028, CERN-LHCB-2001-130.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Determination of the total c anti- c production cross-section in 340-GeV/c σ - nucleus interactions*. *Eur. Phys. J. C* 13 247–254 (2000). [arXiv:hep-ex/9908061](https://arxiv.org/abs/hep-ex/9908061).
- E:** Kulyavtsev, A. and others: *Proposal for an Experiment to Measure Mixing, CP Violation and Rare Decays in Charm and Beauty Particle Decays at the Fermilab Collider - BTeV*. doi:10.2172/993204 (2000). FERMILAB-PROPOSAL-0918 .
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* 531 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](https://arxiv.org/abs/hep-ex/9912036).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of Sigma- e - elastic scattering in the hyperon beam experiment WA89 at CERN*. *Eur. Phys. J. C* 8 59–66 (1999).

- A:** Adamovich, M. I. and others, WA89 Collaboration: *Charge asymmetries for D , $D(s)$ and $\Lambda(baryon)$ production in Sigma- nucleus interactions at 340-GeV/c.* *Eur. Phys. J. C* **8** 593–601 (1999). CERN-EP-98-041, CERN-EP-98-41, MPI-K-H-V5-1998, [arXiv:hep-ex/9803021](#).
- A:** Siebert, H. W., WA89 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam.* *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment.* *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of the Xi- pi+ decay mode of the Xi(1690)0 hyperon.* *Eur. Phys. J. C* **5** 621–624 (1998). CERN-PPE-97-134, MPI-H-V38-1997, [arXiv:hep-ex/9710024](#).
- E:** Skwarnicki, T., BTeV Collaboration: *Initial design of the BTeV RICH detector.* *Nucl. Instrum. Meth. A* **408** 204–210 (1998).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam.* (1998).
- E:** Andrighetto, A. and others, WA94 Collaboration: *Charged particle production in S S collisions at 200-GeV/c per nucleon.* *Phys. Lett. B* **412** 148–154 (1997).
- E:** Va'vra, Jaroslav: *Photon detectors with gaseous amplification.* *Nucl. Instrum. Meth. A* **387** 137–145 (1997). SLAC-PUB-7241.
- T:** Pavel, Thomas Joseph: *Measurement of charged spectra at the Z^0 with Cherenkov ring imaging.* (1997). SLAC-R-0491, SLAC-R-491, SLAC-0491, SLAC-491.
- T:** Fournier, Alain: *Study of the production of the charmed hadrons D^\pm and Λ_c^\pm in the reaction (Σ^-, N) at 330 GeV/c.* (1997).
- E:** Ypsilantis, T. and Seguinot, J.: *Development of ring imaging Cherenkov counters for particle identification.* *NATO Sci. Ser. B* **352** 551–592 (1996). LPC-94-48.
- T:** Weyers, Peter J.: *Test measurements at a photon detector prototype for the RICH of HERA-B.* (1996). DESY-F15-96-03.
- E:** Abatzis, S and others, WA94 Collaboration: *Study of charged particle production using Omega RICH in WA94 experiment.* *Nucl. Instrum. Meth. A* **371** 22–26 (1996).
- E:** Va'vra, J. and Kadyk, J. and Wise, J. and Coyle, P.: *Study of photosensitive mixtures of TMAE and helium, hydrocarbon or CF-4 based carrier gases.* *Nucl. Instrum. Meth. A* **370** 352–366 (1996). SLAC-PUB-6783, SLAC-PUB-95-6783, LBL-36943.
- E:** Va'vra, J.: *Photon detectors.* *Nucl. Instrum. Meth. A* **371** 33–56 (1996). SLAC-PUB-6961, SLAC-PUB-95-6961.
- A:** Siebert, H. W., WA89 Collaboration: *Hyperons and charm baryons at CERN.* *Nucl. Phys. B Proc. Suppl.* **50** 162–167 (1996).
- E:** Nappi, E.: *RICH detectors in heavy ion experiments.* *Nucl. Instrum. Meth. A* **371** 275–284 (1996).
- T:** Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons.* [doi:10.2172/1372289](#) (1996). [FERMILAB-THESIS-1996-76](#) .
- E:** Kluit, P. M.: *Physics with a ring imaging Cherenkov detectors.* *Nucl. Instrum. Meth. A* **371** 223–227 (1996). NIKHEF-95-048.
- T:** Heidrich, M.: *Entwicklung eines Übergangsstrahlungszählers basierend auf Gasmikrostreifendetektoren zur ersten Untersuchung von Σ -e-Streuung am Hyperonenstrahl des CERN.* (May 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian).* (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Efimov, A. and Stone, S.: *A novel LiF radiator for RICH detectors.* *Nucl. Instrum. Meth. A* **371** 79–81 (1996).
- T:** Berat, Corrine: *Contribution to the experimental study of charmed hadron production with a hyperon beam.* (1996). ISN-96-114.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Measurement of the Ω_c^0 lifetime.* *Phys. Lett. B* **358** 151–161 (1995). MPI-H-V27-1995, CERN-PPE-95-105, [arXiv:hep-ex/9507004](#).
- T:** Vesin, Emmanuel: *Etude de la production des mésons charmés dans la réaction Σ^- proton à 330 GeV/c.* (1995). ISN-95.96.
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0 .* (December 1995). Ph.D. Thesis, Universität Heidelberg.
- E:** Efimov, A. and Artuso, M. and Gao, Min and Mountain, R. and Muheim, F. and Mukhin, Y. and Playfer, S. and Stone, S.: *Monte Carlo studies of a novel LiF radiator for RICH detectors.* *Nucl. Instrum. Meth. A* **365** 285–290 (1995). HEPHY-94-8, [arXiv:hep-ex/9502006](#).
- T:** Charignon, Francois: *Study of Λ_c^+ production and search for the pentaquark in the data of the WA89 experiment at CERN.* (1995).
- E:** Buys, A.: *RICH detectors in operating experiments.* (1995). DELPHI-95-163 RICH 85.
- E:** Seguinot, J. and Ypsilantis, T.: *A Historical survey of ring imaging Cherenkov counters.* *Nucl. Instrum. Meth. A* **343** 1–29 (1994). LPC-93-44.

- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkowdetektors und Suche nach der exotischen $U(3100)$ -Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
- A:** Muller, U. and Engelfried, J. and Gerassimov, S. G. and Martens, K. and Michaels, R. and Siebert, H. W. and Walder, G.: *Particle identification with the RICH detector in experiment WA89 at CERN.* *Nucl. Instrum. Meth. A* **343** 279–283 (1994). CERN-PPE-93-109.
- T:** Martens, Kai: *Die Suche nach dem Zerfall $U^+(3100) \rightarrow \Lambda \bar{p} \pi^+ \pi^+$ in dem Hyperonstrahlexperiment WA89.* (1994). Ph.D. Thesis, Universität Heidelberg.
- A:** Martens, K. and Engelfried, J. and Faller, F. and Lennert, P. and Michaels, R. and Muller, U. and Rieseberg, H. and Siebert, H. W. and Walder, G.: *Aging effects observed in the CERN Omega RICH.* *Nucl. Instrum. Meth. A* **343** 258–262 (1994). HD-PY-93-05.
- E:** Krizan, P. and Mankel, R. and Rensing, D. and Shuvalov, S. and Spahn, M., HERA-B Collaboration: *HERA-B, an experiment to study CP violation at the HERA proton ring using an internal target.* *Nucl. Instrum. Meth. A* **351** 111–131 (1994).
- E:** HERA-B Collaboration: *HERA-B: An experiment to study CP violation in the B system using an internal target at the HERA proton ring. Proposal.* (1994). DESY-PRC-94-02.
- T:** Dropmann, Frank: *Observation of the decays of the charmed-strange baryons Ξ_c^+ and Ξ_c^0 in the hyperon beam experiment WA89.* (1994).
- A:** Walder, G., WA89 Collaboration: *The RICH counter in the CERN hyperon beam experiment.* (1993).
- T:** Albertson, E.: *Search for the H dibaryon in Σ^- - nucleon interactions.* (1993). Ph.D. Thesis, Universität Heidelberg.
5. Oleynik, G. and others: *DART: Data Acquisition for the Next Generation of Fermilab Fixed Target Experiments.* *IEEE Trans. Nucl. Sci.* **41** 45–51 (1994).

14 Citations:

- T:** Estrada-Tristan, Nora Patricia: *Estudios para la determinación del tiempo de vida del barión doblemente-encantado Ξ_{cc}^+ .* (2016). [FERMILAB-MASTERS-2016-13](#) .
- E:** Kodama, K. and others, DONuT Collaboration: *Final tau-neutrino results from the DONuT experiment.* *Phys. Rev. D* **78** 052002 (2008). FERMILAB-PUB-07-598-E, [arXiv:0711.0728 \[hep-ex\]](#).
- E:** Garzoglio, G. and others: *Experiment E835 at Fermilab.* *Nucl. Instrum. Meth. A* **519** 558–609 (2004). FERMILAB-PUB-04-0571.
- T:** Lasio, Giovanni Maria: *Measurement of decay parameters of the $\psi'(2^3S_1)$ state of the charmonium.* [doi:10.2172/1419222](#) (2003). [UMI-31-01607](#), [UMI-31-01607-MC](#), [FERMILAB-THESIS-2003-20](#) .
- E:** Stancari, Giulio, E835 Collaboration: *Measurements of the magnetic form-factor of the proton at large timelike momentum transfers.* (1999). FERMILAB-CONF-99-280-E.
- E:** Ambrogiani, M. and others, E835 Collaboration: *Measurements of the magnetic form-factor of the proton in the timelike region at large momentum transfer.* *Phys. Rev. D* **60** 032002 (1999). FERMILAB-PUB-99-027-E.
- E:** Ordine, A. and Boiano, A. and Vardaci, E. and others: *FAIR: a new fast trigger and readout bus system.* *IEEE Trans.Nucl.Sci.* **45** 873-879 (1998).
- A:** Streets, Jonathan Mark and Meadows, J. and Moore, Carmenita and Pordes, Ruth and Slimmer, D. and Vittone, M. and Stern, E.: *Access to CAMAC from VxWorks and UNIX in DART.* *IEEE Trans. Nucl. Sci.* **43** 52-54 (1996). FERMILAB-CONF-95-119.
- A:** Oleynik, G. and others: *Fermilab DART Run Control.* *IEEE Trans. Nucl. Sci.* **43** 20–24 (1996). FERMILAB-CONF-95-118.
- A:** Oleynik, G. and Engelfried, J. and Mengel, L. and Moore, Carmenita and Pordes, Ruth and Udumula, L. and Votava, M. and Van Drunen, E. and Zioulas, G.: *Run control techniques for the FermiLab DART data acquisition system.* (1995). FERMILAB-CONF-95-324.
- A:** Meadows, J. T. and Anderson, J. T. and Cooper, P. S. and Engelfried, J. and Franzen, J. W. and Forster, Robert G. and Levinson, F. and Rawls, J. and Haber, S.: *FOCEX: A Fiber optic cable extender for a high speed parallel RS485 data cable.* (1995). FERMILAB-CONF-95-110.
- A:** Votava, M. and Kent, S. and Oleynik, G. and Pordes, R. and Pangburn, J. and Patrick, J. and Heyes, G. and Watson, W.A.: *FASTBUS standard routines implementation for Fermilab embedded processor boards.* *IEEE Transactions on Nuclear Science* **41** 165-168 (1994).
- A:** Pordes, Ruth and others: *Fermilab's DART DA system.* (1994). FERMILAB-CONF-94-103.
- E:** MacKinnon, B. and others: *Development of the Sloan Digital Sky Survey online systems.* *IEEE Trans. Nucl. Sci.* **41** 105-110 (1994).

4. Muller, U. and Engelfried, J. and Gerassimov, S. G. and Martens, K. and Michaels, R. and Siebert, H. W. and Walder, G.: *Particle identification with the RICH detector in experiment WA89 at CERN*. *Nucl. Instrum. Meth. A* **343** 279–283 (1994).

47 Citations:

- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Volpe, R. and others: *The role of the NA62 RICH in the $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$ measurement*. *Nucl. Instrum. Meth. A* **952** 161802 (2020).
- E:** Cortina Gil, Eduardo and others, NA62 Collaboration: *Searches for lepton number violating K^+ decays*. *Phys. Lett. B* **797** 134794 (2019). CERN-EP-2019-104, [arXiv:1905.07770](https://arxiv.org/abs/1905.07770) [hep-ex].
- T:** Feiler, Simon: *Study of the Decay $\pi^0 \rightarrow \nu \bar{\nu}$ using Data from CERN Experiment NA62*. (2019). Honours Thesis, The University of British Columbia.
- E:** Križan, Peter: *RICH detectors: Analysis methods and their impact on physics*. *Nucl. Instrum. Meth. A* **876** 272–277 (2017).
- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments*. *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052](https://arxiv.org/abs/1009.0052) [physics.ins-det].
- T:** Yurevich, Sergey: *Electron-Pair Production in 158 AGeV/c Pb-Au Collisions from CERES*. (2006). CERN-THESIS-2006-077.
- A:** Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* **857** 340–346 (2006).
- T:** Panebianco, Stefano: *Mesure de la polarisation des gluons par l'asymétrie de spin dans la production de mésons charmés*. (2005). dapnia-05-06-T, CERN-THESIS-2005-091.
- A:** Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](https://arxiv.org/abs/physics/0312061).
- E:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results*. *Nucl. Instrum. Meth. A* **502** 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, [arXiv:hep-ex/0208046](https://arxiv.org/abs/hep-ex/0208046).
- E:** Schwitters, R.F.: *Unified Approach to Particle Identification Using the HERA-B RICH*. HERA-B Internal Note 01–066 RICH 01–017 (May 2001).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](https://arxiv.org/abs/hep-ex/9912036).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of Sigma- e- elastic scattering in the hyperon beam experiment WA89 at CERN*. *Eur. Phys. J. C* **8** 59–66 (1999).
- E:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L., SELEX Collaboration: *The SELEX Phototube RICH Detector*. *Nucl. Instrum. Meth. A* **431** 53–69 (1999). FERMILAB-PUB-98-299-E, [arXiv:hep-ex/9811001](https://arxiv.org/abs/hep-ex/9811001).
- E:** Ososkov, G. A.: *Novel approach in RICH data handling*. *Czech. J. Phys.* **49S2** 145–160 (1999).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- E:** Kolganova, E. A. and Ososkov, G. A.: *Particle identification algorithms for raw RICH detector data*. *Czech. J. Phys.* **49S2** 169–172 (1999).
- E:** Engelfried, J. and Filimonov, I. and Kilmer, J. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Nemitkin, A. and Ramberg, E. and Rud, V. and Stutte, L.: *The RICH Detector of the SELEX Experiment*. *Nucl. Instrum. Meth. A* **433** 149–152 (1999). FERMILAB-CONF-98-399-E.
- E:** Chernov, N. and Kolganova, E. and Ososkov, G.: *Robust methods for RICH ring recognition and particle identification*. *Nucl. Instrum. Meth. A* **433** 274–278 (1999).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam*. (1998).
- E:** Engelfried, J. and Kilmer, J. and Ramberg, E. and Stutte, L. and Kozhevnikov, A. and Kubarovsky, V. and Molchanov, V. and Filimonov, I. and Nemitkin, A. and Rud, V., E781 Collaboration: *The E781 (SELEX) RICH Detector*. *Nucl. Instrum. Meth. A* **409** 439–442 (1998). FERMILAB-CONF-97-210-E.
- T:** Pavel, Thomas Joseph: *Measurement of charged spectra at the Z^0 with Cherenkov ring imaging*. (1997). SLAC-R-0491, SLAC-R-491, SLAC-0491, SLAC-491.
- T:** Lopez-Fernandez, Ricardo: *Identificación de partículas producidas en interacción $p - N$ mediante el E781 RICH*. (August 1997). Master Thesis, Instituto de Física, Universidad Autónoma de San Luis Potosí.
- T:** Fournier, Alain: *Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c*. (1997).
- A:** Müller, U and others, WA89 Collaboration: *The Recent performance of the Omega RICH detector in experiment WA89 at CERN*. *Nucl. Instrum. Meth. A* **371** 27–32 (1996). CERN-PPE-95-117.
- A:** Siebert, H. W., WA89 Collaboration: *Hyperons and charm baryons at CERN*. *Nucl. Phys. B Proc. Suppl.* **50** 162–167 (1996).

- A:** Muller, U., WA89 Collaboration: *Search for charmed-strange baryons in experiment WA89.* [Nucl. Instrum. Meth. A 371 192–194](#) (1996).
- T:** Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons.* doi:10.2172/1372289 (1996). [FERMILAB-THESIS-1996-76](#).
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian).* (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- T:** Berat, Corrine: *Contribution to the experimental study of charmed hadron production with a hyperon beam.* (1996). ISN-96-114.
- T:** Beck, M.: *Einsatz eines hadronischen Spaghetti-Kalorimeters zur Suche nach dem Hexaquark H in Σ^- Nukleon Wechselwirkungen bei $\sqrt{s} = 25 \text{ GeV}/c^2$.* (December 1996). Ph.D. Thesis, Universität Heidelberg.
- A:** Adamivich, M. I. and others, WA89 Collaboration: *Measurement of the Ω_c^0 lifetime.* [Phys. Lett. B 358 151–161](#) (1995). MPI-H-V27-1995, CERN-PPE-95-105, [arXiv:hep-ex/9507004](#).
- T:** Vesin, Emmanuel: *Etude de la production des mésons charmés dans la réaction Σ^- proton à 330 GeV/c.* (1995). ISN-95.96.
- T:** Schmitt, Lars: *Investigation of the lifetime of the doubly strange, charmed baryon Ω_c^0 at the hyperon beam experiment WA89.* (1995).
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0 .* (December 1995). Ph.D. Thesis, Universität Heidelberg.
- T:** Charignon, Francois: *Study of Λ_c^+ production and search for the pentaquark in the data of the WA89 experiment at CERN.* (1995).
- T:** Werding, Roland: *Construction of a microstrip detector system and investigation of cascade(c)+ baryons in sigma-nucleon reactions.* (1994).
- T:** Walder, Georg: *Employment of a ring imaging Cherenkov detector to look at lambda (c)+ decays.* (1994).
- T:** Thilmann, Oliver: *Betrieb und Kalibration des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA8.* (1994). Diploma Thesis, Universität Heidelberg.
- T:** Scheel, Christine Veronica: *The Spaghetti calorimeter: research, development, application.* (1994). RX-1514-AMSTERDAM.
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkowdetektors und Suche nach der exotischen $U(3100)$ -Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
- T:** Martens, Kai: *Die Suche nach dem Zerfall $U^+(3100) \rightarrow \Lambda \bar{p} \pi^+ \pi^+$ in dem Hyperonstrahllexperiment WA89.* (1994). Ph.D. Thesis, Universität Heidelberg.
- T:** Dropmann, Frank: *Observation of the decays of the charmed-strange baryons Ξ_c^+ and Ξ_c^0 in the hyperon beam experiment WA89.* (1994).
- T:** Boss, M.: *Betrieb und Langzeitverhalten des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA89.* (1994). Diploma Thesis, Universität Heidelberg.
- A:** Walder, G., WA89 Collaboration: *The RICH counter in the CERN hyperon beam experiment.* (1993).
- T:** Albertson, E.: *Search for the H dibaryon in Σ^- - nucleon interactions.* (1993). Ph.D. Thesis, Universität Heidelberg.
3. Martens, K. and Engelfried, J. and Faller, F. and Lennert, P. and Michaels, R. and Muller, U. and Rieseberg, H. and Siebert, H. W. and Walder, G.: *Aging effects observed in the CERN Omega RICH.* [Nucl. Instrum. Meth. A 343 258–262](#) (1994).

19 Citations:

- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments.* [Nucl. Instrum. Meth. A 639 1–6](#) (2011). UASLP-IF-10-001, [arXiv:1009.0052 \[physics.ins-det\]](#).
- E:** Lau, K. and others: *Test-beam aging studies of a TMAE prototype for the HERA-B RICH.* [Nucl. Instrum. Meth. A 515 313–318](#) (2003).
- T:** Schreiner, Alexander: *Aging Studies of Drift Chambers of the HERA-B Outer Tracker Using CF_4 -based Gases.* (2001). Ph.D. Thesis, Humboldt-Universität Berlin.
- E:** Pyrlík, J., HERA-B RICH Collaboration: *Aging measurements of a TMAE-based photon detector for the HERA-B RICH.* [Nucl. Instrum. Meth. A 433 92–97](#) (1999).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment.* [Nucl. Instrum. Meth. A 433 71–76](#) (1999).
- E:** Pyrlík, J. and others: *Aging measurements of a TMAE based photon detector for the HERA-B RICH.* [Nucl. Instrum. Meth. A 414 170–181](#) (1998).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam.* (1998).
- E:** Va'vra, Jaroslav: *Photon detectors with gaseous amplification.* [Nucl. Instrum. Meth. A 387 137–145](#) (1997). SLAC-PUB-7241.
- T:** Thilmann, Oliver: *Operation of a ring imaging Cherenkov detector and measurement of the total c anti- c production cross-section in 340-GeV/c Sigma- nucleus interactions.* (1997).

- E:** Va'vra, J.: *Photon detectors*. *Nucl. Instrum. Meth. A* **371** 33–56 (1996). SLAC-PUB-6961, SLAC-PUB-95-6961.
- E:** Van Apeldoorn, G. and Toet, D. Z. and Bourdarios, C. and Buys, A. and Dracos, M. and Juillot, P. and Kjaer, N.: *Monitoring of the ageing of the DELPHI barrel RICH MWPCs*. *Nucl. Instrum. Meth. A* **371** 61–63 (1996).
- T:** Berat, Corrine: *Contribution to the experimental study of charmed hadron production with a hyperon beam*. (1996). ISN-96-114.
- E:** Buys, A.: *RICH detectors in operating experiments*. (1995). DELPHI-95-163 RICH 85.
- E:** van Apeldoorn, G. and Bourdarios, C. and Davenport, M. and Dracos, M. and Juillot, P. and Kjaer, N. and Toet, D. Z. and Tsirou, A.: *A Qualitative method to determine the loss of efficiency in the DELPHI Barrel RICH MWPCs due to aging*. *Nucl. Instrum. Meth. A* **348** 249–251 (1994).
- T:** Thilmann, Oliver: *Betrieb und Kalibration des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA8*. (1994). Diploma Thesis, Universität Heidelberg.
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkovdetektors und Suche nach der exotischen $U(3100)$ -Resonanz*. (1994). Ph.D. Thesis, Universität Mainz.
- T:** Martens, Kai: *Die Suche nach dem Zerfall $U^+(3100) \rightarrow \Lambda \bar{p} \pi^+ \pi^+$ in dem Hyperonstrahllexperiment WA89*. (1994). Ph.D. Thesis, Universität Heidelberg.
- E:** HERA-B Collaboration: *HERA-B: An experiment to study CP violation in the B system using an internal target at the HERA proton ring. Proposal*. (1994). DESY-PRC-94-02.
- T:** Boss, M.: *Betrieb und Langzeitverhalten des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA89*. (1994). Diploma Thesis, Universität Heidelberg.
2. Beusch, W. and others: *The RICH counter in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **323** 373–379 (1992).

53 Citations:

- A:** Adamovich, M. I. and others, WA89 Collaboration: *Observation of a resonance in the $K(s)p$ decay channel at a mass of 1765 MeV/c²*. *Eur. Phys. J. C* **50** 535–538 (2007). [arXiv:hep-ex/0702044](#).
- A:** Engelfried, Jurgen: *Instrumentation*. (2003). UASLP-IF-03-007, [arXiv:physics/0312061](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Determination of the total c anti- c production cross-section in 340-GeV/c sigma- nucleus interactions*. *Eur. Phys. J. C* **13** 247–254 (2000). [arXiv:hep-ex/9908061](#).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of Sigma- e- elastic scattering in the hyperon beam experiment WA89 at CERN*. *Eur. Phys. J. C* **8** 59–66 (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Charge asymmetries for D , $D(s)$ and $\Lambda(b)c$ production in Sigma- nucleus interactions at 340-GeV/c*. *Eur. Phys. J. C* **8** 593–601 (1999). CERN-EP-98-041, CERN-EP-98-41, MPI-K-H-V5-1998, [arXiv:hep-ex/9803021](#).
- A:** Siebert, H. W., WA89 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam*. *Nucl. Instrum. Meth. A* **433** 352–356 (1999).
- A:** Muller, U. and others: *The Omega RICH in the CERN hyperon beam experiment*. *Nucl. Instrum. Meth. A* **433** 71–76 (1999).
- E:** Baum, Guenter and others: *The COMPASS RICH1 detector*. *Nucl. Phys. B Proc. Suppl.* **78** 354–359 (1999).
- E:** Baum, G. and others: *The COMPASS RICH project*. *Nucl. Instrum. Meth. A* **433** 207–211 (1999).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *First observation of the $\Xi^- \pi^+$ decay mode of the $\Xi(1690)0$ hyperon*. *Eur. Phys. J. C* **5** 621–624 (1998). CERN-PPE-97-134, MPI-H-V38-1997, [arXiv:hep-ex/9710024](#).
- T:** Newbold, David Michael: *Inclusive hyperon polarisation studies at the CERN SPS hyperon beam*. (1998).
- E:** Kleinknecht, Konrad: *Detectors for particle radiation*. (1998).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Ξ^- production by Sigma-, pi- and neutrons in the hyperon beam experiment at CERN*. *Nucl. Phys. B Proc. Suppl.* **55** 14–18 (1997). CERN-PPE-97-023, CERN-PPE-97-23, MPI-K-97-9, [arXiv:hep-ex/9703007](#).
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Ξ^- production by Σ^- , π^- and neutrons in the hyperon beam experiment at CERN*. *Z. Phys. C* **76** 35–44 (1997).
- T:** Volkemer, Burkhard: *Development and structure of central proportional wire chambers and determination of the lifetime of the charmed baryon Λ_c^+ , measurement of the production of D^\pm and Λ_c^+ , and an upper limit on the production of the Ξ_c^+ in a 330 GeV/c Σ^- hyperon beam*. (1997).
- E:** Ypsilantis, T. and Seguinot, J.: *Development of ring imaging Cherenkov counters for particle identification*. *NATO Sci. Ser. B* **352** 551–592 (1996). LPC-94-48.
- E:** Abatzis, S. and others, WA94 Collaboration: *Study of charged particle production using Omega RICH in WA94 experiment*. *Nucl. Instrum. Meth. A* **371** 22–26 (1996).
- A:** Müller, U. and others, WA89 Collaboration: *The Recent performance of the Omega RICH detector in experiment WA89 at CERN*. *Nucl. Instrum. Meth. A* **371** 27–32 (1996). CERN-PPE-95-117.

- A:** Muller, U., WA89 Collaboration: *Search for charmed-strange baryons in experiment WA89*. *Nucl. Instrum. Meth. A* **371** 192–194 (1996).
- T:** Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons*. doi:10.2172/1372289 (1996). FERMILAB-THESIS-1996-76 .
- T:** Heidrich, M.: *Entwicklung eines Übergangsstrahlungszählers basierend auf Gasmikrostreifendetektoren zur ersten Untersuchung von Σ -e-Streuung am Hyperonenstrahl des CERN*. (May 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian)*. (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Baum, Guenter and others, COMPASS Collaboration: *COMPASS: A Proposal for a Common Muon and Proton Apparatus for Structure and Spectroscopy*. (1996). CERN-SPSLC-96-14, CERN-SPSLC-P-297.
- T:** Beck, M.: *Einsatz eines hadronischen Spaghetti-Kalorimeters zur Suche nach dem Hexaquark H in Σ^- Nukleon Wechselwirkungen bei $\sqrt{s} = 25$ GeV/c²*. (December 1996). Ph.D. Thesis, Universität Heidelberg.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Measurement of the Ω_c^0 lifetime*. *Phys. Lett. B* **358** 151–161 (1995). MPI-H-V27-1995, CERN-PPE-95-105, arXiv:hep-ex/9507004.
- A:** Adamovich, M. I. and others, WA89 Collaboration: *Measurement of the polarization of Λ_{b0} , anti- Λ_{b0} , Σ^+ and Ξ^- produced in a Σ^- beam of 330-GeV/c*. *Z. Phys. A* **350** 379–386 (1995). CERN-PPE-94-086, CERN-PPE-94-86, arXiv:hep-ex/9409001.
- T:** Vesin, Emmanuel: *Etude de la production des mésons charmés dans la réaction Σ^- proton à 330 GeV/c*. (1995). ISN-95.96.
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0* . (December 1995). Ph.D. Thesis, Universität Heidelberg.
- T:** Werding, Roland: *Construction of a microstrip detector system and investigation of cascade(c)+ baryons in sigma-nucleon reactions*. (1994).
- T:** Walder, Georg: *Employment of a ring imaging Cherenkov detector to look at lambda (c)+ decays*. (1994).
- A:** Siebert, H. W. and others: *The Omega RICH*. *Nucl. Instrum. Meth. A* **343** 60–67 (1994). HD-PY-93-04.
- E:** Seguinot, J. and Ypsilantis, T.: *A Historical survey of ring imaging Cherenkov counters*. *Nucl. Instrum. Meth. A* **343** 1–29 (1994). LPC-93-44.
- T:** Scheel, Christine Veronica: *The Spaghetti calorimeter: research, development, application*. (1994). RX-1514-AMSTERDAM.
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkwodetektors und Suche nach der exotischen $U(3100)$ -Resonanz*. (1994). Ph.D. Thesis, Universität Mainz.
- E:** Muller, U. and Rosner, G. and Volkemer, B. and Walcher, T. and Majewski, S. and Egger, J. and Kaspar, H. and Kneis, H. and Povh, B.: *A RICH detector with two stage gas amplification at atmospheric pressure*. *Nucl. Instrum. Meth. A* **343** 203–207 (1994). MZ-KPH-13-93.
- A:** Muller, U. and Engelfried, J. and Gerassimov, S. G. and Martens, K. and Michaels, R. and Siebert, H. W. and Walder, G.: *Particle identification with the RICH detector in experiment WA89 at CERN*. *Nucl. Instrum. Meth. A* **343** 279–283 (1994). CERN-PPE-93-109.
- T:** Martens, Kai: *Die Suche nach dem Zerfall $U^+(3100) \rightarrow \Lambda \bar{\pi} \pi^+ \pi^+$ in dem Hyperonstrahlxperiment WA89*. (1994). Ph.D. Thesis, Universität Heidelberg.
- A:** Martens, K. and Engelfried, J. and Faller, F. and Lennert, P. and Michaels, R. and Muller, U. and Rieseberg, H. and Siebert, H. W. and Walder, G.: *Aging effects observed in the CERN Omega RICH*. *Nucl. Instrum. Meth. A* **343** 258–262 (1994). HD-PY-93-05.
- E:** Krizan, P. and Mankel, R. and Rensing, D. and Shuvalov, S. and Spahn, M., HERA-B Collaboration: *HERA-B, an experiment to study CP violation at the HERA proton ring using an internal target*. *Nucl. Instrum. Meth. A* **351** 111–131 (1994).
- E:** HERA-B Collaboration: *HERA-B: An experiment to study CP violation in the B system using an internal target at the HERA proton ring. Proposal*. (1994). DESY-PRC-94-02.
- E:** Hallewell, G. D.: *Long term, efficient RICH detector operation with TMAE*. *Nucl. Instrum. Meth. A* **343** 250–257 (1994). CPPM-93-001.
- T:** Dropmann, Frank: *Observation of the decays of the charmed-strange baryons Ξ_c^+ and Ξ_c^0 in the hyperon beam experiment WA89*. (1994).
- A:** Chudakov, E.: *Charmed baryon production in the CERN hyperon beam*. *Frascati Phys. Ser.* **3** 143–156 (1994).
- A:** Chudakov, E., WA89 Collaboration: *Charm production in the CERN hyperon beam*. *Nuovo Cim. A* **107** 1971–1976 (1994).
- T:** Boss, M.: *Betrieb und Langzeitverhalten des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahlxperiment WA89*. (1994). Diploma Thesis, Universität Heidelberg.
- E:** Baur, R. and others: *In beam experience from the CERES UV detectors: Prohibitive spark breakdown in multistep parallel plate chambers as compared to wire chambers*. *Nucl. Instrum. Meth. A* **343** 231–240 (1994). CERN-PPE-93-169.

- E:** Ballou, J. and Berat, C. and Buenerd, M. and Chauvin, J. and Hostachy, J. Y. and Laamyem, M. and Martin, Ph. and Rey-Campagnolle, M. and Touillon, R. and Volkemer, B.: *A high resolution fast RICH counter for online tagging of high-energy particles*. *Nucl. Instrum. Meth. A* **338** 310–327 (1994). ISBN-93-11.
- A:** Walder, G., WA89 Collaboration: *The RICH counter in the CERN hyperon beam experiment*. (1993).
- A:** Michaels, Robert, WA89 Collaboration: *First Results of the CERN Hyperon Beam Experiment WA89*. (1993).
- A:** Beusch, W. and others: *The rich counter in the CERN hyperon beam experiment*. *AIP Conf. Proc.* **272** 1671-1674 (1993).
- T:** Trombini, Andrea: *Inclusive production of Ξ^* resonances in $\Sigma^- - C$ and $\Sigma^- - Cu$ interactions at 300 GeV/c*. (1992). Ph.D. Thesis, Universität Heidelberg.
- T:** Rudolph, Heinrich: *Aufbau eines elektromagnetischen Kalorimeters und Messung der Polarisation inklusiv produzierter Λ^0 und Σ^+* . (1992). Ph.D. Thesis, Universität Mainz.
1. von Walter, Peter and Engelfried, Jurgen: *A 100 MHz Time-to-Digital-Converter System in VMEbus*. *IEEE Trans. Nucl. Sci.* **37** 378-381 (1990).

9 Citations:

- T:** Thilmann, Oliver: *Operation of a ring imaging Cerenkov detector and measurement of the total c anti- c production cross-section in 340-GeV/c Sigma- nucleus interactions*. (1997).
- T:** Schmitt, Lars: *Investigation of the lifetime of the doubly strange, charmed baryon Ω_c^0 at the hyperon beam experiment WA89*. (1995).
- T:** Walder, Georg: *Employment of a ring imaging Cherenkov detector to look at lambda (c)+ decays*. (1994).
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkovdetektors und Suche nach der exotischen $U(3100)$ -Resonanz*. (1994). Ph.D. Thesis, Universität Mainz.
- A:** Muller, U. and Engelfried, J. and Gerassimov, S. G. and Martens, K. and Michaels, R. and Siebert, H. W. and Walder, G.: *Particle identification with the RICH detector in experiment WA89 at CERN*. *Nucl. Instrum. Meth. A* **343** 279–283 (1994). CERN-PPE-93-109.
- E:** Höbel, M. and others: *A Fast Multi-Time-Interval Analyzer with Real-Time Processing Capability*. *Review of Scientific Instruments* **65** 2123-2129 (1994).
- A:** Beusch, W. and others: *The rich counter in the CERN hyperon beam experiment*. *AIP Conf. Proc.* **272** 1671-1674 (1993).
- T:** Engelfried, Jurgen: *Einsatz eines Ringabbildenden Cherenkovzählers zur Suche nach dem exotischen Zustand $U(3100)$* . (February 1992). Ph.D. Thesis, Heidelberg University,.
- T:** Kluth, Stephan: *Aufbau und Betrieb UV-empfindlicher Driftkammer*. (1991). Diploma Thesis, Universität Heidelberg.

101 publications in refereed journals, with 5482 citations (3484 external, 1196 auto, and 802 thesis).

Chapters in Books

3. Engelfried, Jürgen: *Particle Identification*. In: Fleck I., Titov M., Grupen C., Buvat I. (Ed.): *Handbook of Particle Detection and Imaging*, 2.edition. Springer (2021).
2. Al-Binni, Usama and others: *Project X: Physics Opportunities*. (2013). [arXiv:1306.5009](https://arxiv.org/abs/1306.5009) [hep-ex].

80 Citations:

- E:** Nevzorov, Roman: *E6 GUT and Baryon Asymmetry Generation in the E6CHM*. *Universe* **8** 33 (2022).
- E:** Hartz, M. and Merkel, P. and Niner, E. and Prebys, E. and Toro, N.: *Test Beam and Irradiation Facilities*. (2022). FERMILAB-CONF-22-218-PPD, [arXiv:2203.09944](https://arxiv.org/abs/2203.09944) [physics.acc-ph].
- E:** Arrington, John and others: *Physics Opportunities for the Fermilab Booster Replacement*. (2022). FERMILAB-FN-1145, LA-UR-22-21987, [arXiv:2203.03925](https://arxiv.org/abs/2203.03925) [hep-ph].
- E:** Ceccucci, Augusto: *Rare Kaon Decays*. *Ann. Rev. Nucl. Part. Sci.* **71** 113–137 (2021).
- E:** De Jesus, A. S. and Kovalenko, S. and Queiroz, F. S. and Siqueira, C. and Sinha, K.: *Vectorlike leptons and inert scalar triplet: Lepton flavor violation, $g - 2$, and collider searches*. *Phys. Rev. D* **102** 035004 (2020). [arXiv:2004.01200](https://arxiv.org/abs/2004.01200) [hep-ph].
- E:** de Jesus, Álvaro S. and Kovalenko, Sergey and Queiroz, Farinaldo S. and de S. Pires, Carlos A. and Villamizar, Yoxara S.: *Dead or alive? Implications of the muon anomalous magnetic moment for 3-3-1 models*. *Phys. Lett. B* **809** 135689 (2020). IIPDM-2020, [arXiv:2003.06440](https://arxiv.org/abs/2003.06440) [hep-ph].
- E:** Berlin, Asher and deNiverville, Patrick and Ritz, Adam and Schuster, Philip and Toro, Natalia: *Sub-GeV dark matter production at fixed-target experiments*. *Phys. Rev. D* **102** 095011 (2020). [arXiv:2003.03379](https://arxiv.org/abs/2003.03379) [hep-ph].

- T:** Andreassi, Guido: *Lepton Flavour Violation searches and scintillating fibre tracker testing in LHCb*. doi:10.5075/epfl-thesis-9251 (2019).
- E:** Nevzorov, R. and Thomas, A. W.: *Baryon asymmetry generation in the E_6 CHM*. *Phys. Lett. B* 774 123–129 (2017). ADP-17-27-T1033, arXiv:1706.02856 [hep-ph].
- E:** Adhikari, S. and others, GlueX Collaboration: *Strange Hadron Spectroscopy with a Secondary KL Beam at GlueX*. (2017). arXiv:1707.05284 [hep-ex].
- E:** deNiverville, Patrick and Chen, Chien-Yi and Pospelov, Maxim and Ritz, Adam: *Light dark matter in neutrino beams: production modelling and scattering signatures at MiniBooNE, T2K and SHIP*. *Phys. Rev. D* 95 035006 (2017). arXiv:1609.01770 [hep-ph].
- E:** Chiang, Cheng-Wei and He, Xiao-Gang and Tandean, Jusak and Yuan, Xing-Bo: *$R_{K^{(*)}}$ and related $b \rightarrow s\ell\bar{\ell}$ anomalies in minimal flavor violation framework with Z' boson*. *Phys. Rev. D* 96 115022 (2017). NCTS-PH-1713, arXiv:1706.02696 [hep-ph].
- E:** Belusevic, Radoje: *A Multi-MW Proton/Electron Linac at KEK*. *J. Appl. Math. Phys.* 5 1222–1242 (2017). KEK-Preprint-2014-35, KEK-REPORT-2014-35-(2014), arXiv:1411.4874 [physics.acc-ph].
- E:** Amaryan, Moskov: *The K_L^0 Beam Facility at JLab*. (2017).
- E:** Addazi, Andrea and Kang, Xian-Wei and Khlopov, Maxim Yu.: *Testing B-violating signatures from Exotic Instantons in future colliders*. *Chin. Phys. C* 41 093102 (2017). arXiv:1705.03622 [hep-ph].
- E:** Phillips, II, D. G. and others: *Neutron-Antineutron Oscillations: Theoretical Status and Experimental Prospects*. *Phys. Rept.* 612 1–45 (2016). FERMILAB-PUB-14-263-T, arXiv:1410.1100 [hep-ex].
- T:** DiFranzo, Anthony: *Simplified Models for Dark Matter Model Building*. (2016).
- T:** DiFranzo, Anthony Paul: *Simplified Models for Dark Matter Model Building*. (2016).
- T:** deNiverville, Patrick: *Searching for hidden sector dark matter with fixed target neutrino experiments*. (2016).
- E:** Buchoff, Michael I. and Wagman, Michael: *Perturbative Renormalization of Neutron-Antineutron Operators*. *Phys. Rev. D* 93 016005 (2016). [Erratum: Phys.Rev.D 98, 079901 (2018)], arXiv:1506.00647 [hep-ph].
- E:** Berezhiani, Zurab: *Neutron–antineutron oscillation and baryonic majoron: low scale spontaneous baryon violation*. *Eur. Phys. J. C* 76 705 (2016). arXiv:1507.05478 [hep-ph].
- E:** Addazi, Andrea and Bianchi, Massimo and Ricciardi, Giulia: *Exotic see-saw mechanism for neutrinos and leptogenesis in a Pati-Salam model*. *JHEP* 02 035 (2016). arXiv:1510.00243 [hep-ph].
- E:** Addazi, Andrea: *Direct generation of a Majorana mass for the Neutron from Exotic Instantons*. *Phys. Lett. B* 757 462–467 (2016). arXiv:1506.06351 [hep-ph].
- E:** Queiroz, Farinaldo S. and Sinha, Kuver and Strumia, Alessandro: *Leptoquarks, Dark Matter, and Anomalous LHC Events*. *Phys. Rev. D* 91 035006 (2015). arXiv:1409.6301 [hep-ph].
- E:** Lebedev, Valeri (Eds.), PIP-II Collaboration: *The PIP-II Reference Design Report*. doi:10.2172/1365571 (2015). FERMILAB-DESIGN-2015-01.
- T:** Kalita, Mukut R.: *Search for a Permanent Electric Dipole Moment of 225Ra*. (2015).
- E:** Holmes, Stephen and Derwent, Paul and Lebedev, Valeri and Mishra, Shekhar and Mitchell, Donald and Yakovlev, Vyacheslav P.: *PIP-II Status and Strategy*. doi:10.18429/JACoW-IPAC2015-THPF116 (2015). FERMILAB-CONF-15-192-AD.
- E:** Gardner, S. and Jafari, E.: *Phenomenology of $n-\bar{n}$ Oscillations Revisited*. *Phys. Rev. D* 91 096010 (2015). arXiv:1408.2264 [hep-ph].
- E:** Dubbers, Dirk: *Magnetic guidance of charged particles*. *Phys. Lett. B* 748 306–310 (2015). arXiv:1501.05131 [physics.ins-det].
- E:** DiFranzo, Anthony and Hooper, Dan: *Searching for MeV-Scale Gauge Bosons with IceCube*. *Phys. Rev. D* 92 095007 (2015). FERMILAB-PUB-15-292-A, UCI-HEP-TR-2015-11, arXiv:1507.03015 [hep-ph].
- E:** deNiverville, Patrick and Pospelov, Maxim and Ritz, Adam: *Light new physics in coherent neutrino-nucleus scattering experiments*. *Phys. Rev. D* 92 095005 (2015). arXiv:1505.07805 [hep-ph].
- E:** Cogollo, D.: *Muon Anomalous Magnetic Moment in a $SU(4) \otimes U(1)_N$ Model*. *Int. J. Mod. Phys. A* 30 1550038 (2015). arXiv:1409.8115 [hep-ph].
- T:** Chakdar, Shreyashi: *New Physics at the TeV Scale*. (2015). arXiv:1604.07358 [hep-ph].
- E:** Buras, Andrzej: *Flavour Expedition to the Zeptouniverse. Flavorful Ways to New Physics*. *Proceedings of Science FWNP 003* (2015). FLAVOUR(267104)-ERC-90, arXiv:1505.00618 [hep-ph].
- E:** Buchoff, Michael I. and Wagman, Michael: *Neutron-Antineutron Operator Renormalization*. *The 32nd International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2014* 290 (2015). arXiv:1502.00044 [hep-lat].
- E:** Brod, Joachim and Greljo, Admir and Stamou, Emmanuel and Uttayarat, Patipan: *Probing anomalous $t\bar{t}Z$ interactions with rare meson decays*. *JHEP* 02 141 (2015). arXiv:1408.0792 [hep-ph].
- E:** Bobeth, Christoph and Haisch, Ulrich: *Anomalous triple gauge couplings from B-meson and kaon observables*. *JHEP* 09 018 (2015). FLAVOUR(267104)-ERC-93, CERN-PH-TH-2015-041, arXiv:1503.04829 [hep-ph].
- E:** Addazi, Andrea and Bianchi, Massimo: *Un-oriented Quiver Theories for Majorana Neutrons*. *JHEP* 07 144 (2015). arXiv:1502.01531 [hep-ph].

- E:** Addazi, A.: *Neutron-Antineutron oscillation as a test of a New Interaction*. *Nuovo Cim. C* **38** 21 (2015).
- E:** Young, A. R. and Huegle, T. and Makela, M. and Morris, C. and Muhrer, G. and Saunders, A.: *Spallation-driven Ultracold Neutron Sources: Concepts for a Next Generation Source*. *Phys. Procedia* **51** 93–97 (2014).
- T:** Wallace, Christopher James: *The Low Energy Phenomenology of a Dark Force*. (2014).
- E:** Queiroz, Farinaldo S. and Shepherd, William: *New Physics Contributions to the Muon Anomalous Magnetic Moment: A Numerical Code*. *Phys. Rev. D* **89** 095024 (2014). CETUP2013-024, [arXiv:1403.2309 \[hep-ph\]](#).
- E:** Park, Sung Jong and Kim, Young Jin and Shin, Taeksu and Kim, Yong Kyun and Kim, Sun Kee: *A proposed method of efficient laser trapping of neutral radium atoms*. *J. Phys. B* **41** 245301 (2014).
- E:** Morrissey, David E. and Spray, Andrew Paul: *New Limits on Light Hidden Sectors from Fixed-Target Experiments*. *JHEP* **06** 083 (2014). [arXiv:1402.4817 \[hep-ph\]](#).
- E:** Kelso, Chris and Long, H. N. and Martinez, R. and Queiroz, Farinaldo S.: *Connection of $g - 2_\mu$, electroweak, dark matter, and collider constraints on 331 models*. *Phys. Rev. D* **90** 113011 (2014). [arXiv:1408.6203 \[hep-ph\]](#).
- E:** Holmes, S. D. and Kaducak, M. and Kephart, R. and Kourbanis, I. and Lebedev, V. and Mishra, S. and Nagaitsev, S. and Solyak, N. and Tschirhart, R., Project X Collaboration: *Status and Opportunities at Project X: A Multi-MW Facility for Intensity Frontier Research*. (2014). FERMILAB-CONF-13-364-AD-APC-CD-TD, [arXiv:1409.5809 \[physics.acc-ph\]](#).
- E:** Hewett, J. L. and others: *Planning the Future of U.S. Particle Physics (Snowmass 2013): Chapter 2: Intensity Frontier*. (2014). FERMILAB-CONF-14-019-CH02, SLAC-PUB-15977, [arXiv:1401.6077 \[hep-ex\]](#).
- E:** Hatzikoutelis, A. and Kotelnikov, S. and Bambah, B. A. and Kasetti, S. P.: *New light weakly-coupled particle searches in a neutrino detector*. *J. Phys. Conf. Ser.* **490** 012070 (2014). FERMILAB-CONF-13-544-E.
- E:** Gardner, Susan and Plaster, Brad: *An overview of neV probes of PeV scale physics - and of what's in between*. *EPJ Web Conf.* **73** 01012 (2014). [arXiv:1403.0521 \[hep-ph\]](#).
- E:** Demir, Durmus Ali and Frank, Mariana and Korutlu, Beste: *Dark Matter from Conformal Sectors*. *Phys. Lett. B* **728** 393–399 (2014). CUMQ-HEP-179, IZTECH-P2013-05, [arXiv:1308.1203 \[hep-ph\]](#).
- E:** Chakdar, Shreyashi and Ghosh, Kirtiman and Nandi, S.: *A predictive model of Dirac Neutrinos*. *Phys. Lett. B* **734** 64–68 (2014). [arXiv:1403.1544 \[hep-ph\]](#).
- E:** Buras, Andrzej J. and Buttazzo, Dario and Girrbach-Noe, Jennifer and Kneijens, Robert: *Can we reach the Zeptouniverse with rare K and $B_{s,d}$ decays?* *JHEP* **11** 121 (2014). FLAVOUR(267104)-ERC-75, [arXiv:1408.0728 \[hep-ph\]](#).
- E:** Buras, Andrzej J. and Girrbach, Jennifer: *Towards the Identification of New Physics through Quark Flavour Violating Processes*. *Rept. Prog. Phys.* **77** 086201 (2014). FLAVOUR(267104)-ERC-45, [arXiv:1306.3775 \[hep-ph\]](#).
- E:** Brice, S. J. and others: *A method for measuring coherent elastic neutrino-nucleus scattering at a far off-axis high-energy neutrino beam target*. *Phys. Rev. D* **89** 072004 (2014). FERMILAB-PUB-13-522-E, [arXiv:1311.5958 \[physics.ins-det\]](#).
- E:** Brambilla, N. and others: *QCD and Strongly Coupled Gauge Theories: Challenges and Perspectives*. *Eur. Phys. J. C* **74** 2981 (2014). CCQCN-2014-24, CCTP-2014-5, CERN-PH-TH-2014-033, DF-1-2014, HIP-2014-03-TH, ITEP-LAT-2014-1, JLAB-THY-14-1865, MITP-14-016, NT@UW-14-04, RUB-TPII-01-2014, TUM-EFT-46-14, FERMILAB-PUB-14-024-T, LLNL-JRNL-651216, UWTHPH-2014-006, [arXiv:1404.3723 \[hep-ph\]](#).
- E:** Batell, Brian and deNiverville, Patrick and McKeen, David and Pospelov, Maxim and Ritz, Adam: *Leptophobic Dark Matter at Neutrino Factories*. *Phys. Rev. D* **90** 115014 (2014). EFI-14-13, [arXiv:1405.7049 \[hep-ph\]](#).
- T:** Bass, Matthew: *Neutrino oscillation parameter sensitivity in future long-baseline experiments*. [doi:10.2172/1172561](#) (2014). FERMILAB-THESIS-2014-28 .
- E:** Alexahin, Y. and Neuffer, D. and Prebys, E.: *Ionization Cooling for Muon Experiments*. (2014). FERMILAB-FN-0988-APC, FERMILAB-BEAMS-DOC-4668-V1, [arXiv:1409.5479 \[physics.acc-ph\]](#).
- E:** Addazi, Andrea and Bianchi, Massimo: *Neutron Majorana mass from exotic instantons*. *JHEP* **12** 089 (2014). ROM2F-2014-06, [arXiv:1407.2897 \[hep-ph\]](#).
- E:** Worcester, E. T., LBNE Collaboration: *LBNE In the Precision Era of Neutrino Oscillation*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2013* **537** (2013).
- E:** Tschirhart, Robert S.: *Beams for the Intensity Frontier of Particle Physics*. *Rev. Accel. Sci. Tech.* **6** 30001 (2013).
- E:** Rosner, Jonathan L.: *Theoretical Issues in Flavor Physics*. (2013). DPF2013-233, EFI-13-26, [arXiv:1309.7980 \[hep-ph\]](#).
- E:** Butler, J. N. and others, Quark Flavor Physics Working Group Collaboration: *Working Group Report: Quark Flavor Physics*. (2013). FERMILAB-CONF-13-664-PPD-T, [arXiv:1311.1076 \[hep-ex\]](#).
- E:** Porter, Frank C.: *Hadron production in e^+e^- annihilation at BaBar, and implication for the muon anomalous magnetic moment*. (2013). [arXiv:1310.3300 \[hep-ex\]](#).
- E:** Nagaitsev, S. and others: *The Project-x Injector Experiment: A Novel High Performance Front-end For A Future High Power Proton Facility At Fermilab*. (2013). FERMILAB-CONF-13-415-AD-APC-TD, [arXiv:1409.5470 \[physics.acc-ph\]](#).

- E:** Adams, Corey and others, LBNE Collaboration: *The Long-Baseline Neutrino Experiment: Exploring Fundamental Symmetries of the Universe*. (2013). BNL-101354-2013-JA, BNL-101354-2014-JA, FERMILAB-PUB-14-022, LA-UR-14-20881, BNL-101354-2014-JA, FERMILAB-PUB-14-022, LA-UR-14-20881, [arXiv:1307.7335 \[hep-ex\]](#).
- E:** de Gouvea, A. and others, Intensity Frontier Neutrino Working Group Collaboration: *Working Group Report: Neutrinos*. (2013). FERMILAB-CONF-13-479-E, [arXiv:1310.4340 \[hep-ex\]](#).
- E:** Holmes, S. D. and others: *Project X: Accelerator Reference Design, Physics Opportunities, Broader Impacts*. [doi:10.2172/1083535](#) (2013). FERMILAB-TM-2557, FERMILAB-DESIGN-2013-01, BNL-101116-2013-BC-81834, JLAB-ACP-13-1725, PNNL-22523, SLAC-R-1020, UASLP-IF-13-001, [arXiv:1306.5022 \[physics.acc-ph\]](#).
- E:** Graf, Norman A. and Peskin, Michael E. and Rosner, Jonathan L. (Eds.): *Proceedings, 2013 Community Summer Study on the Future of U.S. Particle Physics: Snowmass on the Mississippi (CSS2013): Minneapolis, MN, USA, July 29-August 6, 2013*. (2013). SLAC-econf-C130729.2, FERMILAB-CONF-13-648, SLAC-PUB-15960.
- E:** Essig, Rouven and others: *Working Group Report: New Light Weakly Coupled Particles*. (2013). YITP-SB-36, FERMILAB-CONF-13-653, [arXiv:1311.0029 \[hep-ph\]](#).
- E:** Diwan, M.: *THE LONG-BASELINE NEUTRINO EXPERIMENT IN THE US. XV International Workshop on Neutrino Telescopes. Proceedings of Science Neutel2013 045* (2013).
- E:** Church, M. and others: *Proposal for an Accelerator R&D User Facility at Fermilab's Advanced Superconducting Test Accelerator (ASTA)*. [doi:10.2172/1422196](#) (2013). FERMILAB-TM-2568.
- E:** Bouchard, C. M.: *Flavor Physics and Lattice QCD*. (2013). [arXiv:1309.7285 \[hep-ph\]](#).
- E:** Blum, T. and others: *Working Group Report: Lattice Field Theory*. (2013). FERMILAB-CONF-13-483-T, [arXiv:1310.6087 \[hep-lat\]](#).
- E:** Bernstein, Robert H. and Cooper, Peter S.: *Charged Lepton Flavor Violation: An Experimenter's Guide*. *Phys. Rept.* **532** 27–64 (2013). FERMILAB-PUB-13-259-PPD, [arXiv:1307.5787 \[hep-ex\]](#).
- E:** Bass, Matthew and Cherdack, Daniel and Wilson, Robert J.: *Future Neutrino Oscillation Sensitivities for LBNE*. (2013). DPF2013-256, [arXiv:1310.6812 \[hep-ex\]](#).
- E:** Babu, K. and others: *Neutron-Antineutron Oscillations: A Snowmass 2013 White Paper*. (2013). FERMILAB-CONF-13-649-E-PPD, [arXiv:1310.8593 \[hep-ex\]](#).
- E:** Babu, K. S. and others: *Working Group Report: Baryon Number Violation*. (2013). FERMILAB-CONF-14-261-T, [arXiv:1311.5285 \[hep-ph\]](#).
- E:** Altmannshofer, Wolfgang and Harnik, Roni and Zupan, Jure: *Low Energy Probes of PeV Scale Sfermions*. *JHEP* **11** 202 (2013). FERMILAB-PUB-13-319-T, [arXiv:1308.3653 \[hep-ph\]](#).
- E:** Agashe, Kaustubh and Bauer, Martin and Goertz, Florian and Lee, Seung J. and Vecchi, Luca and Wang, Lian-Tao and Yu, Felix: *Constraining RS Models by Future Flavor and Collider Measurements: A Snowmass Whitepaper*. (2013). FERMILAB-CONF-13-435-T, [arXiv:1310.1070 \[hep-ph\]](#).

1. Englufried, Jürgen: *Particle identification*. [doi:10.1007/978-3-642-13271-1%5F6](#) (2012).

3 Citations:

- T:** Lieret, Kilian: *Calibration of machine learning based hadronic tagging in preparation for a V_{cb} measurement and clustering of kinematic distributions*. [doi:10.5282/edoc.30193](#) (2022).
- E:** Frühwirth, Rudolf and Strandlie, Are: *Pattern Recognition, Tracking and Vertex Reconstruction in Particle Detectors*. [doi:10.1007/978-3-030-65771-0](#) (2020).
- E:** Ratcliff, Blair and Schwiening, Jochen: *Cherenkov counters*. [doi:10.1007/978-3-642-13271-1%5F18](#) (2012).

3 Chapters in Books, with 83 citations (74 external, 0 auto, and 9 thesis).

Books edited

3. Nappi, E, and Dalla Torre, S. and Harnew, N. and Iijima, T and Hallewell, G. and Hofman, W. and Forty, R., and Englufried, J. and Di Mauro, A. and Korpar, S. and Kravchenko, E. and Schwiening, J. (Editors): (Eds.): *11th Workshop on Ring Imaging Cherenkov Detectors (RICH 2024)*. Nuclear Instruments and Methods in Physics Research A (2024).
2. Englufried, J. and Paic, G. (Eds.): *Proceedings, 5th International Workshop on Ring Imaging Cherenkov Detectors (RICH 2004): Playa de Carmen, Yucatan Peninsula, Mexico, November 30-December 5, 2004*. Nuclear Instruments and Methods in Physics Research A 553 pp.1–379 (2005).

6 Citations:

- E:** Navas, S. and others, Particle Data Group Collaboration: *Review of particle physics*. *Phys. Rev. D* **110** 030001 (2024).

- E: Workman, R. L. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2022 083C01](#) (2022).
- E: Zyla, P. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [PTEP 2020 083C01](#) (2020).
- E: Tanabashi, M. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Phys. Rev. D 98 030001](#) (2018).
- E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Chin. Phys. C 40 100001](#) (2016).
- E: Lippmann, Christian: *Particle identification*. [Nucl. Instrum. Meth. A 666 148–172](#) (2012). [arXiv:1101.3276 \[hep-ex\]](#).

1. Diaz-Cruz, J. Lorenzo and Engelfried, Jürgen and Kirchbach, Mariana and Mondragon, Myriam (Eds.): *Proceedings, 8th Mexican Workshop on Particles and Fields: Zacatecas, Mexico, November 14-20, 2001*. (2002).

3 Books edited, with 6 citations (6 external, 0 auto, and 0 thesis).

Non-Refereed Publications

48. Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). [arXiv:2503.22256 \[hep-ph\]](#).
47. Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2*. (2023). [arXiv:2311.08231 \[hep-ex\]](#).

30 Citations:

- E: Wang, Xiao-Yun and Gao, Yuan and Liu, Xiang: *Production potential of hidden-strange molecular pentaquarks through the π - $p \rightarrow K^* \Sigma$ process*. [Phys. Rev. D 111 034021](#) (2025). [arXiv:2408.17076 \[hep-ph\]](#).
- E: Schubert, Jonathan L. and Döbrich, Babette and Jerhot, Jan and Spadaro, Tommaso: *On the impact of heavy meson production spectra on searches for heavy neutral leptons*. [JHEP 02 140](#) (2025). MPP-2024-129, [arXiv:2407.08673 \[hep-ph\]](#).
- E: Fry, John and others, KOTO Collaboration: *Proposal of the KOTO II experiment*. (2025). [arXiv:2501.14827 \[hep-ex\]](#).
- E: González, Marcela and Neill, Nicolás A.: *QCD running in lepton number violating meson and tau decays*. [Phys. Rev. D 111 015041](#) (2025). [arXiv:2309.14445 \[hep-ph\]](#).
- E: Arias-Aragón, F. and Darmé, L. and Gargiulo, R. and di Cortona, G. Grilli and Kozhuharov, V. and Nardi, E. and Raggi, M. and Spadaro, T. and Valente, P.: *NA62e+: dark sector searches with high intensity positron beams in ECN3*. (2025). [arXiv:2502.10346 \[hep-ph\]](#).
- E: Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- E: Wanke, Rainer: *Future Experiments of Kaon Physics*. [EPJ Web Conf. 312 03002](#) (2024).
- E: Wang, Xiao-Yun and Zhou, Hui-Fang and Liu, Xiang: *Prospects for detecting the hidden-strange pentaquarklike state $N^*(2080)$ in the π - $p \rightarrow \phi n$ reaction*. [Phys. Rev. D 110 014026](#) (2024). [arXiv:2404.11078 \[hep-ph\]](#).
- A: Swallow, Joel: *Experimental overview of CKM metrology from kaon physics*. [Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 005](#) (2024).
- E: Soldani, Mattia and others: *Acceleration of electromagnetic shower development and enhancement of light yield in oriented scintillating crystals*. (2024). [arXiv:2404.12016 \[hep-ex\]](#).
- E: Schacht, Stefan and Soni, Amarjit: *Rare K decays off and on the lattice*. [The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023 238](#) (2024). [arXiv:2312.05527 \[hep-ph\]](#).
- A: Panichi, Ilaria, NA62 Collaboration: *Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment*. [The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023 335](#) (2024).
- E: Monti-Guarnieri, Pietro and others: *Particle identification capability of a homogeneous calorimeter composed of oriented crystals*. [JINST 19 P10014](#) (2024). [arXiv:2405.11302 \[hep-ex\]](#).
- T: Marzocca, David and Nardecchia, Marco and Stanzione, Alfredo and Toni, Claudio: *Implications of $B \rightarrow K \nu \bar{\nu}$ under rank-one flavor violation hypothesis*. [Eur. Phys. J. C 84 1217](#) (2024). [arXiv:2404.06533 \[hep-ph\]](#).
- A: Martellotti, Silvia and others: *Status of searches for rare kaon decays at NA62 & HIKE*. [Workshop Italiano sulla Fisica Brad Alta IntensitGr. Proceedings of Science WIFAI2023 027](#) (2024).
- A: Kholodenko, Sergei, NA62 Collaboration: *Recent results and prospects of the NA62 experiment at CERN*. [International Conference on Particle Physics and Cosmology. Proceedings of Science ICPPCRubakov2023 042](#) (2024).

- E:** Hoid, Bai-Long and Hoferichter, Martin and de Elvira, Jacobo Ruiz: *Comparing phenomenological estimates of dilepton decays of pseudoscalar mesons with lattice QCD*. *The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023* 244 (2024). [arXiv:2312.00520 \[hep-lat\]](#).
- E:** Hoferichter, Martin and Hoid, Bai-Long and de Elvira, Jacobo Ruiz: *Improved Standard-Model prediction for $K_L \rightarrow \ell^+ \ell^-$* . *JHEP* 04 071 (2024). IPARCOS-UCM-23-089, [arXiv:2310.17689 \[hep-ph\]](#).
- A:** Hives, Zdenko, NA62 Collaboration: *Precision Measurements and Prospects with Kaons at CERN*. *16th International Conference on Heavy Quarks and Leptons. Proceedings of Science HQL2023* 003 (2024).
- E:** Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ distributions*. *Eur. Phys. J. C* 84 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- A:** Francesconi, M. and others: *Readout studies for the HIKE main electromagnetic calorimeter*. *Nucl. Instrum. Meth. A* 1067 169679 (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* 47 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Davighi, Joe and Gosnay, Alastair and Miller, David J. and Renner, Sophie: *Phenomenology of a Deconstructed Electroweak Force*. *JHEP* 05 085 (2024). CERN-TH-2023-246, [arXiv:2312.13346 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Exploring scalar contributions with $K^+ \rightarrow \pi^+ \ell^+ \ell^-$* . *Phys. Lett. B* 855 138824 (2024). CERN-TH-2024-044, [arXiv:2404.03643 \[hep-ph\]](#).
- E:** D'Ambrosio, G. and Mahmoudi, F. and Neshatpour, S.: *Beyond the Standard Model prospects for kaon physics at future experiments*. *JHEP* 02 166 (2024). CERN-TH-2023-208, [arXiv:2311.04878 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* 10 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Baratto-Roldán, Anna and Perrin-Terrin, Mathieu and Parozzi, Elisabetta Giulia and Jebramcik, Marc Andre and Charitonidis, Nikolaos: *NuTag: a proof-of-concept study for a long-baseline neutrino beam*. *Eur. Phys. J. C* 84 1024 (2024). [arXiv:2401.17068 \[physics.acc-ph\]](#).
- E:** Anzivino, G. and others: *Workshop summary: Kaons@CERN 2023*. *Eur. Phys. J. C* 84 377 (2024). CERN-TH-2023-206, [arXiv:2311.02923 \[hep-ph\]](#).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments*. (2023). CERN-THESIS-2023-421.
46. Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent*. (2022). [arXiv:2211.16586 \[hep-ex\]](#).

64 Citations:

- E:** Detering, Maximilian and Enguita, Victor and Gavela, Belen and Steingasser, Thomas and You, Tevong: *Higgs Criticality and the Metastability Bound: a target for future colliders*. (2025). [arXiv:2503.22787 \[hep-ph\]](#).
- E:** Aebischer, Jason and others: *Kaon Physics: A Cornerstone for Future Discoveries*. (2025). CERN-TH-2025-066, [arXiv:2503.22256 \[hep-ph\]](#).
- A:** Swallow, Joel: *Experimental overview of CKM metrology from kaon physics*. *Workshop Italiano sulla Fisica Brad Alta Intensità*. *Proceedings of Science WIFAI2023* 005 (2024).
- E:** Stummer, Florian and others: *Background mitigation concepts for Super-NaNu*. *JACoW IPAC2024 TUPC63* (2024). CERN-PBC-CONF-2024-006.
- E:** Soldani, Mattia and others: *Acceleration of electromagnetic shower development and enhancement of light yield in oriented scintillating crystals*. (2024). [arXiv:2404.12016 \[hep-ex\]](#).
- E:** Sharp, C. J. and others: *Assessment of beam-intercepting device robustness for intensity increase in CERN's North Area*. *J. Phys. Conf. Ser.* 2687 082038 (2024).
- E:** Schacht, Stefan and Soni, Amarjit: *Rare K decays off and on the lattice*. *The 40th International Symposium on Lattice Field Theory. Proceedings of Science LATTICE2023* 238 (2024). [arXiv:2312.05527 \[hep-ph\]](#).
- E:** Roy, Shreya, SHADOWS Collaboration: *The SHADOWS experiment at the CERN SPS*. *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 465 (2024).
- A:** Romano, Angela: *Status and Prospects of $K \rightarrow \pi \nu \bar{\nu}$ at NA62 and KOTO*. *20th International Conference on B-Physics at Frontier Machines. Proceedings of Science BEAUTY2023* 050 (2024).
- E:** Radics, Balint, DUNE Collaboration: *Sensitivity for new light, long-lived flavor-changing scalar bosons at DUNE and NA64 $_{\mu}$* . *The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2023* 191 (2024).
- A:** Peruzzo, Letizia, NA62 Collaboration: *Precision measurements with Kaons at CERN*. *8th Symposium on Prospects in the Physics of Discrete Symmetries. Proceedings of Science DISCRETE2022* 070 (2024).
- T:** Noël, Frederic: *$\mu \rightarrow e$ conversion in nuclei: EFT description, charge densities, and pseudo-scalar decays*. [doi:10.48549/5476](#) (2024).

- E:** Morandini, Alessandro and Ferber, Torben and Kahlhoefer, Felix: *Reconstructing axion-like particles from beam dumps with simulation-based inference*. *Eur. Phys. J. C* **84** 200 (2024). TTP23-031, P3H-23-054, [arXiv:2308.01353 \[hep-ph\]](#).
- E:** Monti-Guarnieri, Pietro and others: *Particle identification capability of a homogeneous calorimeter composed of oriented crystals*. *JINST* **19** P10014 (2024). [arXiv:2405.11302 \[hep-ex\]](#).
- E:** Mikulenko, Oleksii and Marinichenko, Mariia: *Measuring lepton number violation in heavy neutral lepton decays at the future muon collider*. *JHEP* **01** 032 (2024). [arXiv:2309.16837 \[hep-ph\]](#).
- A:** Kleimenova, Alina, GigaTracKer Working Group Collaboration: *Operation and performance of the NA62 GigaTracker*. *The 32nd International Workshop on Vertex Detectors. Proceedings of Science VERTEX2023 008* (2024).
- E:** Hoferichter, Martin and Hoid, Bai-Long and de Elvira, Jacobo Ruiz: *Improved Standard-Model prediction for $K_L \rightarrow \ell^+ \ell$* . *JHEP* **04** 071 (2024). IPARCOS-UCM-23-089, [arXiv:2310.17689 \[hep-ph\]](#).
- E:** Greljo, Admir and Thomsen, Anders Eller: *Rising through the ranks: flavor hierarchies from a gauged $SU(2)$ symmetry*. *Eur. Phys. J. C* **84** 213 (2024). [arXiv:2309.11547 \[hep-ph\]](#).
- E:** Gorbahn, Martin and Moldanazarova, Ulserik and Sieja, Kai Henryk and Stamou, Emmanuel and Tabet, Mustafa: *The anatomy of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ distributions*. *Eur. Phys. J. C* **84** 680 (2024). [arXiv:2312.06494 \[hep-ph\]](#).
- E:** Gninenko, Sergei N. and Kirpichnikov, Dmitry V. and Kuleshov, Sergey and Lyubovitskij, Valery E. and Zhevlov, Alexey S.: *Test of the vector portal with dark fermions in the charge-exchange reactions in the NA64 experiment at CERN SPS*. *Phys. Rev. D* **109** 075021 (2024). [arXiv:2312.01703 \[hep-ph\]](#).
- E:** Fridell, Kåre: *Leptogenesis and neutrino mass with scalar leptoquarks*. (2024). KEK-TH-2665, [arXiv:2411.03282 \[hep-ph\]](#).
- E:** Frau, Giulia and Langenbruch, Christoph: *Charged Lepton-Flavour Violation*. *Symmetry* **16** 359 (2024).
- E:** Franqueira Ximenes, Rui and Aberle, Oliver and Calviani, Marco and Esposito, Raffaele and Grenard, Jean-Louis and Griesemer, Tina and Romero Francia, Alvaro and Torregrosa, Claudio: *Latest Advances in Targetry Systems at CERN and Exciting Avenues for Future Endeavours*. *JACoW HB2023 599–602* (2024).
- A:** Fiorenza, R., HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at CERN SPS*. *Nuovo Cim. C* **47** 86 (2024).
- T:** Fiorenza, Renato: *Observation of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and measurement of its branching ratio with the NA62 experiment*. (2024). CERN-THESIS-2024-332.
- E:** Ferrillo, Martina and Ovchinnikov, Maksym and Resnati, Filippo and De Roeck, Albert: *Improving the potential of BDF@SPS to search for new physics with liquid argon time projection chambers*. *JHEP* **02** 196 (2024). [arXiv:2312.14868 \[hep-ph\]](#).
- E:** Ferber, Torben and Grohsjean, Alexander and Kahlhoefer, Felix: *Dark Higgs bosons at colliders*. *Prog. Part. Nucl. Phys.* **136** 104105 (2024). P3H-23-034, TTP23-018, [arXiv:2305.16169 \[hep-ph\]](#).
- E:** Detering, Maximilian and You, Tevong: *Vacuum Metastability from Axion-Higgs Criticality*. (2024). KCL-PH-TH-2024-73, [arXiv:2412.03542 \[hep-ph\]](#).
- E:** D’Ambrosio, G. and Iyer, A. M. and Mahmoudi, F. and Neshatpour, S.: *Exploring scalar contributions with $K^+ \rightarrow \pi^+ \ell^+ \ell^-$* . *Phys. Lett. B* **855** 138824 (2024). CERN-TH-2024-044, [arXiv:2404.03643 \[hep-ph\]](#).
- E:** D’Ambrosio, Giancarlo and Knecht, Marc: *Predictions for the Rare Kaon Decays $K_{S,L} \rightarrow \pi^0 \ell^+ \ell$ from QCD in the Limit of a Large Number of Colours*. *Universe* **10** 457 (2024). [arXiv:2409.08568 \[hep-ph\]](#).
- E:** D’Ambrosio, G. and Mahmoudi, F. and Neshatpour, S.: *Beyond the Standard Model prospects for kaon physics at future experiments*. *JHEP* **02** 166 (2024). CERN-TH-2023-208, [arXiv:2311.04878 \[hep-ph\]](#).
- E:** Coloma, Pilar and López-Pavón, Jacobo and Molina-Bueno, Laura and Urrea, Salvador: *New physics searches using ProtoDUNE and the CERN SPS accelerator*. *JHEP* **01** 134 (2024). IFIC/23-12, IFT-UAM/CSIC-23-35, FTUV-23-0329.0644, [arXiv:2304.06765 \[hep-ph\]](#).
- E:** Cicero, V., SHADOWS Collaboration: *The SHADOWS experiment at the CERN SPS*. *JINST* **19** C07012 (2024).
- E:** Bernard, Véronique and Descotes-Genon, Sébastien and Knecht, Marc and Moussallam, Bachir: *A dispersive study of final-state interactions in $K \rightarrow \pi \pi \pi$ amplitudes*. *Eur. Phys. J. C* **84** 744 (2024). [arXiv:2403.17570 \[hep-ph\]](#).
- E:** Barducci, D. and Bertuzzo, E. and Taoso, M. and Ternes, C. A. and Toni, C.: *Illuminating the dark: mono- γ signals at NA62*. *JHEP* **10** 016 (2024). [arXiv:2406.17599 \[hep-ph\]](#).
- E:** Barbieri, Riccardo and Isidori, Gino: *Minimal flavour deconstruction*. *JHEP* **05** 033 (2024). [arXiv:2312.14004 \[hep-ph\]](#).
- A:** Baigarashev, D.: *Latest Results and Precision Measurements from the NA62 Experiment*. *Moscow Univ. Phys. Bull.* **79** 122–128 (2024).
- E:** Antusch, Stefan and Greljo, Admir and Stefanek, Ben A. and Thomsen, Anders Eller: *$U(2)$ Is Right for Leptons and Left for Quarks*. *Phys. Rev. Lett.* **132** 151802 (2024). KCL-PH-TH/2023-64, [arXiv:2311.09288 \[hep-ph\]](#).
- E:** Alves, Gustavo F. S. and Fong, Chee Sheng and Leal, Luigi P. S. and Zukanovich Funchal, Renata: *Limits on WR from Meson Decays*. *Phys. Rev. Lett.* **133** 161802 (2024). FERMILAB-PUB-23-363-T-V, [arXiv:2307.04862 \[hep-ph\]](#).
- T:** Allwicher, Lukas: *Investigating Flavourful New Physics at the TeV Scale*. [doi:10.5167/uzh-258700](#) (2024).

- E:** Allwicher, Lukas and Cornella, Claudia and Isidori, Gino and Stefanek, Ben A.: *New physics in the third generation. A comprehensive SMEFT analysis and future prospects.* *JHEP* **03** 049 (2024). ZU-TH 71/23, MITP-23-060, KCL-PH-TH/2023-59, [arXiv:2311.00020 \[hep-ph\]](#).
- E:** Wang, Xuan-Gong and Thomas, A. W.: *Dark photon effect on the rare kaon decay.* *J. Phys. G* **50** 085001 (2023). ADP-23-01/T1210, [arXiv:2301.08367 \[hep-ph\]](#).
- A:** Tinti, G., NA62 Collaboration: *Physics beyond the Standard Model with NA62.* *JINST* **18** C12018 (2023).
- E:** Stummer, Florian and others: *Conceptual design of the magnetised iron block system for the SHADOWS experiment.* *JACoW IPAC2023 MOPA088* (2023).
- T:** Soldani, Mattia: *Innovative applications of strong crystalline field effects to particle accelerators and detectors.* (2023).
- E:** Sieber, H. and Kirpichnikov, D. V. and Voronchikhin, I. V. and Crivelli, P. and Gninenko, S. N. and Kirsanov, M. M. and Krasnikov, N. V. and Molina-Bueno, L. and Sekatskii, S. K.: *Probing hidden sectors with a muon beam: Implication of spin-0 dark matter mediators for the muon ($g-2$) anomaly and the validity of the Weiszäcker-Williams approach.* *Phys. Rev. D* **108** 056018 (2023). [arXiv:2305.09015 \[hep-ph\]](#).
- E:** Sharp, Calum and others: *Assessment of beam-intercepting device robustness for intensity increase in CERN's North Area.* *JACoW IPAC2023 WEPM114* (2023).
- A:** Ruggiero, Giuseppe, NA62 Collaboration: *Physics with Kaons at NA62. 21st Conference on Flavor Physics and CP Violation. Proceedings of Science FPCP2023 018* (2023).
- E:** Radics, B. and Molina-Bueno, L. and Fields, L. and Sieber, H. and Crivelli, P.: *Sensitivity potential to a light flavor-changing scalar boson with DUNE and NA64 μ .* *Eur. Phys. J. C* **83** 775 (2023). [arXiv:2306.07405 \[hep-ex\]](#).
- E:** Ovchinnikov, Maksym and Tastet, Jean-Loup and Mikulenko, Oleksii and Bondarenko, Kyrylo: *Sensitivities to feebly interacting particles: Public and unified calculations.* *Phys. Rev. D* **108** 075028 (2023). [arXiv:2305.13383 \[hep-ph\]](#).
- A:** Moulson, Matthew, HIKE Collaboration: *HIKE: High Intensity Kaon Experiments at the CERN SPS.* *J. Phys. Conf. Ser.* **2446** 012036 (2023). [arXiv:2212.00498 \[hep-ex\]](#).
- E:** Mikulenko, Oleksii and Bondarenko, Kyrylo and Boyarsky, Alexey and Ruchayskiy, Oleg: *Unveiling new physics with discoveries at Intensity Frontier.* (2023). [arXiv:2312.05163 \[hep-ph\]](#).
- A:** Kholodenko, S., NA62 Collaboration: *Latest Results from Kaon Experiments at CERN.* *Phys. Atom. Nucl.* **86** 1301–1309 (2023).
- T:** Jerhot, Jan: *Hidden sector searches with fixed-target experiments.* (2023). CERN-THESIS-2023-421.
- A:** Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, [arXiv:2311.08231 \[hep-ex\]](#).
- E:** Graneli, Alessandro and Pascoli, Silvia and Petcov, Serguey T.: *Low-Scale Leptogenesis with Low-Energy Dirac CP-Violation.* *Phys. Rev. D* **108** L101302 (2023). [arXiv:2307.07476 \[hep-ph\]](#).
- E:** Fraser, Matthew and others: *Investigating the feasibility of delivering higher intensity proton beams to ECN3 at the CERN SPS North Area.* *JACoW IPAC2023 MOPA084* (2023).
- E:** Felkl, Tobias and Li, Tong and Liao, Jiajun and Schmidt, Michael A.: *Probing general $U(1)$ ' models with non-universal lepton charges at FASER/FASER2, COHERENT and long-baseline oscillation experiments.* *JHEP* **09** 168 (2023). CPPC-2023-03, [arXiv:2306.09569 \[hep-ph\]](#).
- A:** Cantone, C. and others: *Beam test, simulation, and performance evaluation of PbF2 and PWO-UF crystals with SiPM readout for a semi-homogeneous calorimeter prototype with longitudinal segmentation.* *Front. in Phys.* **11** 1223183 (2023). [arXiv:2308.01148 \[physics.ins-det\]](#).
- E:** Bondarenko, Kyrylo and Boyarsky, Alexey and Jacobsson, Richard and Mikulenko, Oleksii and Ovchinnikov, Maksym: *Towards the optimal beam dump experiment to search for feebly interacting particles.* *Eur. Phys. J. C* **83** 1126 (2023). [arXiv:2304.02511 \[hep-ph\]](#).
- E:** Antel, C. and others: *Feebly-interacting particles: FIPs 2022 Workshop Report.* *Eur. Phys. J. C* **83** 1122 (2023). CERN-TH-2023-061, DESY-23-050, FERMILAB-PUB-23-149-PPD, INFN-23-14-LNF, JLAB-PHY-23-3789, LA-UR-23-21432, MITP-23-015, [arXiv:2305.01715 \[hep-ph\]](#).
- E:** Ahdida, C. and others: *Post-LS3 Experimental Options in ECN3.* (2023). [arXiv:2310.17726 \[hep-ex\]](#).
- E:** Afik, Yoav and Döbrich, Babette and Jerhot, Jan and Soreq, Yotam and Tobioka, Kohsaku: *Probing long-lived axions at the KOTO experiment.* *Phys. Rev. D* **108** 055007 (2023). IRMP-CP3-23-11, IRMP-CP3-23-10, MPP-2023-40, KEK-TH-2499, [arXiv:2303.01521 \[hep-ph\]](#).
- E:** Neuhaus, Friedemann and Schott, Matthias and Wang, Chen and Wanke, Rainer: *NaNu: Proposal for a Neutrino Experiment at the SPS Collider located at the North Area of CERN.* (2022). [arXiv:2210.15532 \[hep-ex\]](#).
45. Engelfried, Jurgen, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$: First NA62 Results.* *Springer Proc. Phys.* **234** 135–141 (2019).
- 2 Citations:
- T:** Fonseca Vázquez, María José: *Producción de K_S^0 en CERN-NA62.* (2022).
- E:** Fabbrichesi, Marco and Gabrielli, Emidio and Lanfranchi, Gaia: *The Dark Photon.* [doi:10.1007/978-3-030-62519-1](#) (2020). [arXiv:2005.01515 \[hep-ph\]](#).

44. Engelfried, Jürgen: *Dark sector searches in non-LHC experiments*. [PoS LHCP2019 182](#) (2019).
43. Martellotti, Silvia and others, NA62 Collaboration: *Search for $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at NA62*. [KnE Energ. Phys. 3 372–378](#) (2018).
- 1 Citation:
E: Lichard, Peter: *Pionium as a source of false events in the $K \rightarrow \pi \nu \bar{\nu}$ decays*. [Phys. Rev. D 102 113005](#) (2020). [arXiv:2006.02969 \[hep-ph\]](#).
42. Zamkovsky, Michal and others: *Neutral pion form factor measurement by the NA62 experiment*. [J. Phys. Conf. Ser. 873 012016](#) (2017).
41. Comfort, Joseph and others: *ORKA: Measurement of the $K \rightarrow \pi^+ \nu \bar{\nu}$ Decay at Fermilab*. [doi:10.2172/1041571](#) (2011).
- 9 Citations:
E: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams*. (2022). [arXiv:2204.13394 \[hep-ex\]](#).
E: Calibbi, Lorenzo and Goertz, Florian and Redigolo, Diego and Ziegler, Robert and Zupan, Jure: *Minimal axion model from flavor*. [Phys. Rev. D 95 095009](#) (2017). TTP16-058, CERN-TH-2016-261, [arXiv:1612.08040 \[hep-ph\]](#).
E: Patrignani, C. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Chin. Phys. C 40 100001](#) (2016).
E: Olive, K. A. and others, Particle Data Group Collaboration: *Review of Particle Physics*. [Chin. Phys. C 38 090001](#) (2014).
A: Worcester, E. T., ORKA Collaboration: *ORKA, The Golden Kaon Experiment: Precision measurement of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and other rare processes*. [2013 Kaon Physics International Conference. Proceedings of Science KAON13 035](#) (2013). BNL-101012-2013-JA, [arXiv:1305.7245 \[hep-ex\]](#).
A: Ritchie, Jack L., ORKA Collaboration: *ORKA: A Precision Measurement of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at Fermilab*. (2013). [arXiv:1301.0335 \[physics.ins-det\]](#).
E: Blitz, Sam and Molloy, Riley: *Fringe Field Effects on Bending Magnets, Derived for TRANSPORT/TURTLE*. (2013). FERMILAB-TM-2564-AD-APC-PPD, [arXiv:1310.8630 \[physics.acc-ph\]](#).
A: Worcester, E. T., ORKA Collaboration: *ORKA: The Golden Kaon Experiment*. [Nucl. Phys. B Proc. Suppl. 233 285–290](#) (2012). BNL-98574-2012-JA, [arXiv:1211.4883 \[hep-ex\]](#).
E: Butler, J. N. and others: *Heavy Quarks*. (2012).
40. , NA62 Collaboration: *Technical Design Document*. (2010). NA62-10-07.
- 5 Citations:
E: Abazov, V. and others, SPD Collaboration: *Technical Design Report of the Spin Physics Detector at NICA*. [Natural Sci. Rev. 1 1](#) (2024). [arXiv:2404.08317 \[hep-ex\]](#).
A: Antonelli, A. and others: *The NA62 LAV front-end electronics*. [JINST 7 C01097](#) (2012). [arXiv:1111.5768 \[physics.ins-det\]](#).
A: Sozzi, Marco S.: *Kaon physics and discrete symmetries*. [Int. J. Mod. Phys. A 26 3967–3985](#) (2011).
A: Sozzi, Marco S.: *Kaon physics and discrete symmetries: Status and perspectives*. [J. Phys. Conf. Ser. 335 012002](#) (2011).
A: Sozzi, Marco S.: *Current and future kaon experiments*. (2011). [arXiv:1102.0893 \[hep-ex\]](#).
39. Comfort, Joseph and others: *Measurement of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ Decay at Fermilab*. [doi:10.2172/1000253](#) (2009).
- 3 Citations:
A: Tschirhart, R.: *The Fermilab proposal P996: Precision measurement of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$* . [Nucl. Phys. B Proc. Suppl. 210-211 220–222](#) (2011).
E: Sozzi, Marco S.: *Kaon physics and discrete symmetries*. [Int. J. Mod. Phys. A 26 3967–3985](#) (2011).
A: Jensen, D. A., P996 Collaboration: *A new proposal to measure $K^+ \rightarrow \pi^+ \nu \bar{\nu}$* . [AIP Conf. Proc. 1259 66–73](#) (2010). FERMILAB-CONF-10-048-E.

38. Sanchez-Lopez, J. L. and others, SELEX Collaboration: *Polarization of Λ^0 and $\bar{\Lambda}^0$ inclusively produced by 610-GeV/c Σ^- and 525-GeV/c proton beams.* (2007). [arXiv:0706.3660 \[hep-ex\]](#).

6 Citations:

- E:** Gong, Wenjie and Parida, Ganesh and Tu, Zhoudunming and Venugopalan, Raju: *Measurement of Bell-type inequalities and quantum entanglement from Λ -hyperon spin correlations at high energy colliders.* *Phys. Rev. D* **106** L031501 (2022). [arXiv:2107.13007 \[hep-ph\]](#).
- E:** Airapetian, A. and others, HERMES Collaboration: *Transverse polarization of Λ hyperons from quasireal photo-production on nuclei.* *Phys. Rev. D* **90** 072007 (2014). DESY-14-097, [arXiv:1406.3236 \[hep-ex\]](#).
- E:** Noda, Hujio and Tashiro, Tsutomu and Nakariki, Shin-Ichi: *Anti-hyperon Polarization in pA and Σ^-A Collisions and Intrinsic Antidiquark State in Incident Baryon.* *Int. J. Mod. Phys. E* **21** 1250001 (2012). [arXiv:1105.1588 \[hep-ph\]](#).
- T:** Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence alpha (in Spanish).* [doi:10.2172/969509](#) (2009). [FERMILAB-THESIS-2009-43](#).
- E:** Abramov, V. V.: *Phenomenology of single-spin effects in hadron production at high energies.* *Phys. Atom. Nucl.* **72** 1872–1888 (2009).
- E:** Siebert, H. W.: *The challenge of polarizations in hadronic hyperon production.* *Eur. Phys. J. ST* **162** 147–153 (2008).

37. Iori, M. and others, SELEX Collaboration: *Measurement of the Ω_c^0 Lifetime.* (2007). [arXiv:hep-ex/0701021](#).

8 Citations:

- E:** Wang, Kai-Lei and Lü, Qi-Fang and Xie, Ju-Jun and Zhong, Xian-Hui: *Toward discovering the excited Ω baryons through nonleptonic weak decays of Ω_c .* *Phys. Rev. D* **107** 034015 (2023). [arXiv:2203.04458 \[hep-ph\]](#).
- E:** Gratx, James and Melić, Blaženka and Nišandžić, Ivan: *Charmed hadron lifetimes. Corfu Summer Institute 2022 "School and Workshops on Elementary Particle Physics and Gravity".* *Proceedings of Science CORFU2022* **040** (2023). [RBI-ThPhys-2023-8](#), [arXiv:2304.08404 \[hep-ph\]](#).
- E:** Gratx, James and Melić, Blaženka and Nišandžić, Ivan: *Lifetimes of singly charmed hadrons.* *JHEP* **07** 058 (2022). [RBI-ThPhys-2022-8](#), [arXiv:2204.11935 \[hep-ph\]](#).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons.* (2020).
- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD.* *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- E:** Klempt, Eberhard and Richard, Jean-Marc: *Baryon spectroscopy.* *Rev. Mod. Phys.* **82** 1095–1153 (2010). [arXiv:0901.2055 \[hep-ph\]](#).
- E:** Ablikim, M. and others, BES Collaboration: *Partial wave analysis of $J/\psi \rightarrow p \text{ anti-}p \pi^0$.* *Phys. Rev. D* **80** 052004 (2009). [arXiv:0905.1562 \[hep-ex\]](#).
- A:** Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons.* *eConf C0610161 003* (2006). [FERMILAB-CONF-07-029-E](#), [HQL-2006-003](#), [UASLP-IF-07-001](#), [FERMILAB-Conf-07/029-E](#), [arXiv:hep-ex/0702001](#).

36. Engelfried, Jurgen: *Ring imaging Cherenkov detectors.* *AIP Conf. Proc.* **857** 340–346 (2006).

1 Citation:

- T:** Rosales-De-Leon, Alberto: *Photohadronic emission of VHE gamma rays in blazars and the CTA neutrino target of opportunity program.* (2022).

35. Engelfried, Jurgen, SELEX Collaboration: *SELEX: Recent Progress in the Analysis of Charm-Strange and Double-Charm Baryons.* *eConf C0610161 003* (2006). [arXiv:hep-ex/0702001](#).

21 Citations:

- E:** Assi, Benoit and Wagman, Michael L.: *Baryons, multihadron systems, and composite dark matter in nonrelativistic QCD.* *Phys. Rev. D* **108** 096004 (2023). [FERMILAB-PUB-23-127-T](#), [arXiv:2305.01685 \[hep-ph\]](#).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons.* (2020).
- E:** Rosner, Jonathan L.: *Heavy-quark exotics.* (2019). [arXiv:1909.02120 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD.* *EPJ Web Conf.* **204** 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).

- E: Weng, Xin-Zhen and Chen, Xiao-Lin and Deng, Wei-Zhen: *Masses of doubly heavy-quark baryons in an extended chromomagnetic model*. *Phys. Rev. D* **97** 054008 (2018). [arXiv:1801.08644 \[hep-ph\]](#).
- E: Traill, Murdo Thomas, LHCb Collaboration: *Spectroscopy of doubly-heavy baryons at LHCb. XVII International Conference on Hadron Spectroscopy and Structure. Proceedings of Science Hadron2017* 067 (2018).
- E: Karliner, Marek and Rosner, Jonathan L.: *Strange baryons with two heavy quarks*. *Phys. Rev. D* **97** 094006 (2018). EFI-17-16, TAUP-3022/17, EFI-17-16, TAUP-3022-17, [arXiv:1803.01657 \[hep-ph\]](#).
- E: Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX-LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* **78** 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E: Spradlin, Patrick, LHCb Collaboration: *Discovery of the doubly charmed baryon Ξ_{cc}^{++} at LHCb. The European Physical Society Conference on High Energy Physics. Proceedings of Science EPS-HEP2017* 408 (2017). LHCb-PROC-2017-036.
- E: Meng, Lu and Li, Ning and Zhu, Shi-Lin: *Deuteron-like states composed of two doubly charmed baryons*. *Phys. Rev. D* **95** 114019 (2017). [arXiv:1704.01009 \[hep-ph\]](#).
- E: Karliner, Marek and Rosner, Jonathan L.: *Isospin splittings in baryons with two heavy quarks*. *Phys. Rev. D* **96** 033004 (2017). EFI-17-14, TAUP-3019-17, [arXiv:1706.06961 \[hep-ph\]](#).
- E: Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest*. *Eur. Phys. J. C* **77** 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E: Akiba, K. and others, LHC Forward Physics Working Group Collaboration: *LHC Forward Physics. J. Phys. G* **43** 110201 (2016). CERN-PH-LPCC-2015-001, SLAC-PUB-16364, DESY-15-167, FERMLAB-PUB-16-572-PPD, [arXiv:1611.05079 \[hep-ph\]](#).
- E: Dosch, Hans Gunter and de Teramond, Guy F. and Brodsky, Stanley J.: *Supersymmetry Across the Light and Heavy-Light Hadronic Spectrum*. *Phys. Rev. D* **92** 074010 (2015). SLAC-PUB-16257, [arXiv:1504.05112 \[hep-ph\]](#).
- T: Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- E: Karliner, Marek and Rosner, Jonathan L.: *Baryons with two heavy quarks: Masses, production, decays, and detection*. *Phys. Rev. D* **90** 094007 (2014). EFI-14-28, TAUP-2986-14, [arXiv:1408.5877 \[hep-ph\]](#).
- E: Brodsky, Stanley J. and Guo, Feng-Kun and Hanhart, Christoph and Meissner, Ulf-G.: *Isospin splittings of doubly heavy baryons*. *Phys. Lett. B* **698** 251–255 (2011). SLAC-PUB-14347, FZJ-IKP-TH-2011-01, [arXiv:1101.1983 \[hep-ph\]](#).
- E: Li, Xue-Qian and Liu, Xiang and Wei, Zheng-Tao: *Charm Physics: A Field Full with Challenges and Opportunities*. *Front. Phys. China* **4** 49–74 (2009). [arXiv:0808.2587 \[hep-ph\]](#).
- E: Hwang, Chien-Wen and Chung, Ching-Ho: *Isospin mass splittings of heavy baryons in HQS*. *Phys. Rev. D* **78** 073013 (2008). [arXiv:0804.4044 \[hep-ph\]](#).
- E: Richard, Jean-Marc: *Charmonium singlets, open charm and exotic hadrons*. *Conf. Proc. C* **070416** 849–852 (2007). LPSC-0759, [arXiv:0706.0158 \[hep-ph\]](#).
- E: Brambilla, Nora: *NRQCD and Quarkonia*. eConf C0610161 004 (2006). HQL-2006-004, [arXiv:hep-ph/0702105](#).
34. Blanco-Covarrubias, A. and Engelfried, J., SELEX Collaboration: *Search of the exotic state $U(3100)$ in SELEX*. *J. Phys. Conf. Ser.* **37** 11–15 (2006).
- 2 Citations:
- T: Blanco-Covarrubias, E. Alejandro: *Measurement of the cross section of charmed hadrons and the nuclear dependence α (in Spanish)*. [doi:10.2172/969509](#) (2009). [FERMLAB-THESIS-2009-43](#).
- T: Sherwood, Daniel: *Search for the $R(3520)$ crypto-exotic state at BaBar*. (2008).
33. Engelfried, J., SELEX Collaboration: *Recent SELEX results on the properties of charmed hadrons*. *AIP Conf. Proc.* **756** 192–194 (2005).
- 3 Citations:
- T: Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). [FERMLAB-THESIS-2006-91](#).
- T: Coleman, Jonathon P.: *Search for the $\Theta(1540)^+$ strange-pentaquark candidate in e^+e^- annihilation, hadroproduction and electroproduction with the BaBar detector*. (2005).
- T: Coleman, Jonathon P.: *Searches for the $\Theta(5)(1540)^+$ Strange-Pentaquark Candidate in e^+e^- Annihilation, Hadroproduction and Electroproduction with the BaBar Detector*. [doi:10.2172/970450](#) (2005). SLAC-R-925.
32. Engelfried, Jurgen: *Review of recent results in charm physics*. *AIP Conf. Proc.* **722** 79–81 (2004). [arXiv:hep-ex/0312038](#).

31. Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons*. Czech. J. Phys. 53 B201–B213 (2003). [arXiv:hep-ex/0212029](#).

55 Citations:

- E:** Meng, Lu and Wang, Bo and Wang, Guang-Juan and Zhu, Shi-Lin: *Chiral perturbation theory for heavy hadrons and chiral effective field theory for heavy hadronic molecules*. *Phys. Rept.* 1019 1–149 (2023). [arXiv:2204.08716 \[hep-ph\]](#).
- E:** Assi, Benoit and Wagman, Michael L.: *Baryons, multihadron systems, and composite dark matter in nonrelativistic QCD*. *Phys. Rev. D* 108 096004 (2023). FERMILAB-PUB-23-127-T, [arXiv:2305.01685 \[hep-ph\]](#).
- T:** Xu, Ao: *Study of charmed baryons at the LHCb experiment*. (2022). CERN-THESIS-2022-271.
- E:** Zheng, Xu-Chang and Chang, Chao-Hsi and Feng, Tai-Fu: *A proposal on complementary determination of the effective electro-weak mixing angles via doubly heavy-flavored hadron production at a super Z-factory*. *Sci. China Phys. Mech. Astron.* 63 281011 (2020). [arXiv:1810.09393 \[hep-ph\]](#).
- E:** Rahmani, S. and Hassanabadi, H. and Sobhani, H.: *Mass and decay properties of double heavy baryons with a phenomenological potential model*. *Eur. Phys. J. C* 80 312 (2020).
- T:** Koshkarev, Sergey: *A phenomenological feasibility study of the possible impact of the intrinsic heavy quark (charm) mechanism on the production of doubly heavy mesons and baryons*. (2020).
- E:** Mehen, Thomas C. and Mohapatra, Abhishek: *Perturbative Corrections to Heavy Quark-Diquark Symmetry Predictions for Doubly Heavy Baryon Hyperfine Splittings*. *Phys. Rev. D* 100 076014 (2019). [arXiv:1905.06965 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *EPJ Web Conf.* 204 08007 (2019). [arXiv:1811.01941 \[hep-ph\]](#).
- E:** Xiao, Li-Ye and Lü, Qi-Fang and Zhu, Shi-Lin: *Strong decays of the 1P and 2D doubly charmed states*. *Phys. Rev. D* 97 074005 (2018). [arXiv:1712.07295 \[hep-ph\]](#).
- E:** Weng, Xin-Zhen and Chen, Xiao-Lin and Deng, Wei-Zhen: *Masses of doubly heavy-quark baryons in an extended chromomagnetic model*. *Phys. Rev. D* 97 054008 (2018). [arXiv:1801.08644 \[hep-ph\]](#).
- E:** Meng, Lu and Li, Ning and Zhu, Shi-lin: *Possible hadronic molecules composed of the doubly charmed baryon and nucleon*. *Eur. Phys. J. A* 54 143 (2018). [arXiv:1707.03598 \[hep-ph\]](#).
- E:** Koshkarev, Sergey and Groote, Stefan: *Analysis of the baryonic state $[[qc]c]$* . (2018). [arXiv:1803.07034 \[hep-ph\]](#).
- E:** Cushman, K. K. and Thomas, A. W. and Young, R. D.: *Charge symmetry violation in the doubly charmed cascade masses*. (2018). ADP-18-11/T1059, ADP-18-11-T1059, [arXiv:1804.05031 \[nucl-th\]](#).
- E:** Brodsky, S. J. and Groote, S. and Koshkarev, S.: *Resolving the SELEX–LHCb double-charm baryon conflict: the impact of intrinsic heavy-quark hadroproduction and supersymmetric light-front holographic QCD*. *Eur. Phys. J. C* 78 483 (2018). SLAC-PUB-17156, [arXiv:1709.09903 \[hep-ph\]](#).
- E:** Xiao, Li-Ye and Wang, Kai-Lei and Lu, Qi-fang and Zhong, Xian-Hui and Zhu, Shi-Lin: *Strong and radiative decays of the doubly charmed baryons*. *Phys. Rev. D* 96 094005 (2017). [arXiv:1708.04384 \[hep-ph\]](#).
- E:** Mehen, Thomas: *Implications of Heavy Quark-Diquark Symmetry for Excited Doubly Heavy Baryons and Tetraquarks*. *Phys. Rev. D* 96 094028 (2017). [arXiv:1708.05020 \[hep-ph\]](#).
- E:** Groote, Stefan and Koshkarev, Sergey: *Production of doubly charmed baryons nearly at rest*. *Eur. Phys. J. C* 77 509 (2017). [arXiv:1704.02850 \[hep-ph\]](#).
- E:** Bi, Huan-Yu and Zhang, Ren-You and Wu, Xing-Gang and Ma, Wen-Gan and Li, Xiao-Zhou and Owusu, Samuel: *Photoproduction of doubly heavy baryon at the LHeC*. *Phys. Rev. D* 95 074020 (2017). [arXiv:1702.07181 \[hep-ph\]](#).
- E:** Zheng, Xu-Chang and Chang, Chao-Hsi and Pan, Zan: *Production of doubly heavy-flavored hadrons at e^+e^- colliders*. *Phys. Rev. D* 93 034019 (2016). [arXiv:1510.06808 \[hep-ph\]](#).
- E:** Trunin, Anton: *bc diquark pair production in high energy proton-proton collisions*. *Phys. Rev. D* 93 114029 (2016). [arXiv:1606.04148 \[hep-ph\]](#).
- E:** Sun, Zhi-Feng and Vicente Vacas, M. J.: *Masses of doubly charmed baryons in the extended on-mass-shell renormalization scheme*. *Phys. Rev. D* 93 094002 (2016). [arXiv:1602.04714 \[hep-ph\]](#).
- E:** Yoshida, Tetsuya and Hiyama, Emiko and Hosaka, Atsushi and Oka, Makoto and Sadato, Katsunori: *Spectrum of heavy baryons in the quark model*. *Phys. Rev. D* 92 114029 (2015). [arXiv:1510.01067 \[hep-ph\]](#).
- E:** Sun, Zhi-Feng and Liu, Zhan-Wei and Liu, Xiang and Zhu, Shi-Lin: *Masses and axial currents of the doubly charmed baryons*. *Phys. Rev. D* 91 094030 (2015). ADP-14-33-T892, [arXiv:1411.2117 \[hep-ph\]](#).
- E:** Yang, Zhong-Juan and Zhao, Xiao-Xia: *The Production of Ξ_{bb} at Photon Collider*. *Chin. Phys. Lett.* 31 091301 (2014). [arXiv:1408.5584 \[hep-ph\]](#).
- E:** Jiang, Jun and Wu, Xing-Gang and Wang, Shao-Ming and Zhang, Jia-Wei and Fang, Zhen-Yun: *A Further Study on the Doubly Heavy Baryon Production around the Z^0 Peak at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* 87 054027 (2013). [arXiv:1302.0601 \[hep-ph\]](#).

- E:** Guo, Feng-Kun and Hidalgo-Duque, Carlos and Nieves, Juan and Valderrama, Manuel Pavon: *Heavy-antiquark-diquark symmetry and heavy hadron molecules: Are there triply heavy pentaquarks?*. *Phys. Rev. D* **88** 054014 (2013). [arXiv:1305.4052 \[hep-ph\]](#).
- E:** Jiang, Jun and Wu, Xing-Gang and Liao, Qi-Li and Zheng, Xu-Chang and Fang, Zhen-Yun: *Doubly Heavy Baryon Production at A High Luminosity e^+e^- Collider*. *Phys. Rev. D* **86** 054021 (2012). [arXiv:1208.3051 \[hep-ph\]](#).
- E:** Brodsky, Stanley J. and Guo, Feng-Kun and Hanhart, Christoph and Meissner, Ulf-G.: *Isospin splittings of doubly heavy baryons*. *Phys. Lett. B* **698** 251–255 (2011). SLAC-PUB-14347, FZJ-IKP-TH-2011-01, [arXiv:1101.1983 \[hep-ph\]](#).
- E:** Li, Xue-Qian and Liu, Xiang and Wei, Zheng-Tao: *Charm Physics: A Field Full with Challenges and Opportunities*. *Front. Phys. China* **4** 49–74 (2009). [arXiv:0808.2587 \[hep-ph\]](#).
- T:** Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD*. (2009). AAT-3352220, PROQUEST-1700674431.
- E:** Hu, Jie: *Chiral corrections to heavy quark-diquark symmetry predictions for doubly heavy baryon zero-recoil semileptonic decay*. (2009). [arXiv:0905.3506 \[hep-ph\]](#).
- T:** Hu, Jie: *Effective Field Theory for Doubly Heavy Baryons and Lattice QCD*. (2009). Ph.D. Thesis, Duke University.
- E:** Liu, Xiang and Ke, Hong-Wei and Qiao, Qing-Peng and Wei, Zheng-Tao and Li, Xue-Qian: *A Possibility of Search for New Physics at LHCb*. *Phys. Rev. D* **77** 035014 (2008). [arXiv:0710.2600 \[hep-ph\]](#).
- T:** Hohler, Paul M.: *Phenomenological aspects of heavy quark systems*. (2008).
- E:** Yang, Zhong-Juan and Yao, Tao: *Doubly heavy baryon production at polarized photon collider*. *Chin. Phys. Lett.* **24** 3378–3380 (2007). SDU-HEP-200705, [arXiv:0710.0051 \[hep-ph\]](#).
- E:** Vairo, Antonio: *Heavy quarkonium physics from effective field theories*. *Eur. Phys. J. A* **31** 728 (2007). IFUM-878-FT, [arXiv:hep-ph/0610251](#).
- T:** Majewski, Stephanie A.: *Study of B-Meson Decays to Final States with a Single Charm Baryon*. [doi:10.2172/953857](#) (2007). SLAC-R-923.
- E:** Li, Shi-Yuan and Si, Zong-Guo and Yang, Zhong-Juan: *Doubly heavy baryon production at gamma gamma collider*. *Phys. Lett. B* **648** 284–288 (2007). SDU-HEP200701, [arXiv:hep-ph/0701212](#).
- T:** Edwards, Adam J.: *A Study of Double-Charm and Charm-Strange Baryons in Electron-Positron Annihilations*. (2007). SLAC-R-883.
- E:** Vairo, Antonio: *Heavy Hadron Spectroscopy*. *Conf. Proc. C* **060726** 71–80 (2006). IFUM-879-FT, [arXiv:hep-ph/0611310](#).
- E:** Mehen, Thomas and Tiburzi, Brian C.: *Doubly heavy baryons and quark-diquark symmetry in quenched and partially quenched chiral perturbation theory*. *Phys. Rev. D* **74** 054505 (2006). JLAB-THY-06-531, [arXiv:hep-lat/0607023](#).
- E:** Jia, Yu: *Variational study of weakly coupled triply heavy baryons*. *JHEP* **10** 073 (2006). [arXiv:hep-ph/0607290](#).
- E:** Hu, Jie and Mehen, Thomas: *Chiral Lagrangian with heavy quark-diquark symmetry*. *Phys. Rev. D* **73** 054003 (2006). JLAB-THY-05-452, [arXiv:hep-ph/0511321](#).
- E:** Fleming, Sean and Mehen, Thomas: *Doubly heavy baryons, heavy quark-diquark symmetry and NRQCD*. *Phys. Rev. D* **73** 034502 (2006). JLAB-THY-05-415, [arXiv:hep-ph/0509313](#).
- E:** Cohen, Thomas D. and Hohler, Paul M.: *Doubly heavy hadrons and the domain of validity of doubly heavy diquark-anti-quark symmetry*. *Phys. Rev. D* **74** 094003 (2006). DOE-ER-40762-363, [arXiv:hep-ph/0606084](#).
- E:** Brambilla, Nora: *NRQCD and Quarkonia*. eConf C0610161 004 (2006). HQL-2006-004, [arXiv:hep-ph/0702105](#).
- E:** Julia-Diaz, B. and Riska, D. O.: *Nuclei of double charm hyperons*. *Nucl. Phys. A* **755** 431–434 (2005). [arXiv:nucl-th/0405061](#).
- E:** Brambilla, Nora and Vairo, Antonio and Rosch, Thomas: *Effective field theory Lagrangians for baryons with two and three heavy quarks*. *Phys. Rev. D* **72** 034021 (2005). IFUM-808-FT, [arXiv:hep-ph/0506065](#).
- E:** Stone, Sheldon: *Experimental results in heavy flavor physics*. *Eur. Phys. J. C* **33** S129–S145 (2004). [arXiv:hep-ph/0310153](#).
- E:** Riska, D.O.: *The Double-Charm Hyperons and Their Interactions*. Bled Workshops in Physics **5** 58-61 (2004).
- E:** Julia-Diaz, B. and Riska, D. O.: *Baryon magnetic moments in relativistic quark models*. *Nucl. Phys. A* **739** 69–88 (2004). [arXiv:hep-ph/0401096](#).
- T:** De Masi, Rita: *Development of a cryogenic silicon detector system and study of strange particle production in deep inelastic scattering*. (2004). CERN-THESIS-2009-086.
- E:** Soto, Joan: *Heavy quarks: Effective theories, lattice and models*. (2003). UB-ECM-PF-03-02, [arXiv:hep-ph/0301138](#).
- E:** Schmitt, L. and Paul, S. and Kuhn, R. and Moinester, M. A.: *Doubly charmed baryons in COMPASS*. (2003). [arXiv:hep-ex/0310049](#).
- E:** Flynn, J. M. and Mescia, F. and Tariq, Abdullah Shams Bin, UKQCD Collaboration: *Spectroscopy of doubly charmed baryons in lattice QCD*. *JHEP* **07** 066 (2003). SHEP-0319, [arXiv:hep-lat/0307025](#).

30. Engelfried, Jurgen: *Instrumentation*. (2003). [arXiv:physics/0312061](#).
- 1 Citation:
E: Ion, D. B. and Ion, M. L.: *Super-Cerenkov radiation: A new phenomenon useful for RICH detectors*. Rom. J. Phys. 51 867–882 (2006). [arXiv:hep-ph/0412151](#).
29. Engelfried, J.: *Particle identification I*. *AIP Conf. Proc.* 674 3–17 (2003).
28. Torres, Ibrahim and Engelfried, Jurgen and Morelos Pineda, Antonio: *Simulation of a RICH detector for the CKM experiment*. (2002). [arXiv:hep-ex/0202002](#).
- 2 Citations:
A: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* 857 340–346 (2006).
A: Cooper, Peter S. and Engelfried, Jurgen, CKM Collaboration: *Redesign of the CKM RICH velocity spectrometers for use in a 1/4 GHz unseparated beam*. *Nucl. Instrum. Meth. A* 553 220–224 (2005). FERMILAB-CONF-05-015-CD.
27. Morelos Pineda, Antonio and Engelfried, J. and Mata, J. and Torres, I. and Vazquez-Jauregui, E., CKM Collaboration: *Fundamental measurements and instrumentation 'CKM'*. *AIP Conf. Proc.* 623 369–372 (2002).
- 1 Citation:
E: Engelfried, Jurgen: *Ring imaging Cherenkov detectors*. *AIP Conf. Proc.* 857 340–346 (2006).
26. Medellín Zapata, Juan and Engelfried, Jurgen and Morelos Pineda, Antonio, SELEX Collaboration: *Resonances in $\Lambda_b^+(c) \rightarrow p K^- \pi^+$* . *AIP Conf. Proc.* 623 285–288 (2002). [arXiv:hep-ex/0202003](#).
- 1 Citation:
T: Medellín Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow p K^- \pi^+$* . doi:10.2172/1155152 (2002). FERMILAB-MASTERS-2002-01 .
25. Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX*. Frascati Phys. Ser. 20 217–228 (2001). [arXiv:hep-ex/0012004](#).
- 2 Citations:
E: Vogt, R. and Gutierrez, T. D.: *Ξ - and ω distributions in hadron nucleus interactions*. *Nucl. Phys. A* 726 134–156 (2003). LBNL-52160, [arXiv:hep-ph/0302109](#).
E: Gutierrez, T. D. and Vogt, R.: *Asymmetries between strange and anti-strange particle production in hadron proton interactions*. *Nucl. Phys. A* 705 396–432 (2002). LBNL-47715, [arXiv:hep-ph/0107044](#).
24. Iori, M. and others, SELEX Collaboration: *Recent results from SELEX*. *Nucl. Phys. B Proc. Suppl.* 93 109–112 (2001). [arXiv:hep-ex/0009049](#).
- 8 Citations:
E: Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *On the energy dependence of the D^+/D^- production asymmetry*. *Phys. Lett. B* 724 108–114 (2013). [arXiv:1302.0035 \[hep-ph\]](#).
E: Cazaroto, E. R. and Goncalves, V. P. and Navarra, F. S. and Nielsen, M.: *Charm production asymmetry at the LHC*. *J. Phys. Conf. Ser.* 458 012014 (2013).
E: Nigmatkulov, G.A. and Savchenko, A.A.: *Correlations of antiprotons with small relative momentum in the SELEX Experiment*. *Bull. of the Russian Academy of Sciences* 75 480–483 (2011).
T: Carvalho, Fabiana: *A nuvem mesônica, a estranheza e o charme nos hádrons*. (2004).
E: Piskounova, O. I.: *On the character of leading asymmetry in the hadroproduction of charmed mesons and baryons*. *Nucl. Phys. B Proc. Suppl.* 93 144–147 (2001). [arXiv:hep-ph/0010263](#).
E: Carvalho, F. and Duraes, F. O. and Navarra, F. S. and Nielsen, Marina: *Does the D^+ / D^- production asymmetry decrease at large $x(F)$?* *Phys. Rev. Lett.* 86 5434–5437 (2001). [arXiv:hep-ph/0009276](#).
E: Bernabeu, Jose: *Hyperons, charm and beauty hadrons: Conclusion and outlook*. *Nucl. Phys. B Proc. Suppl.* 93 369–380 (2001). [arXiv:hep-ph/0011265](#).
E: Anjos, J. C. and Magnin, J. and Herrera, G.: *On the intrinsic charm and the recombination mechanisms in charm hadron production*. *Phys. Lett. B* 523 29–34 (2001). CBPF-NF-053-01, [arXiv:hep-ph/0109185](#).

23. Frank, J. and others: *Charged Kaons at the Main injector (CKM): A Proposal for a Precision Measurement of the Decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and Other Rare K^+ Processes at Fermilab using the Main Injector.* doi:10.2172/878912 (2001).

12 Citations:

- E: Ashraf, M. U. and others, HIKE Collaboration: *High Intensity Kaon Experiments (HIKE) at the CERN SPS Proposal for Phases 1 and 2.* (2023). CERN-SPSC-2023-031, arXiv:2311.08231 [hep-ex].
- E: , NA62/KLEVER, US Kaon Interest Group, KOTO, LHCb Collaboration: *Searches for new physics with high-intensity kaon beams.* (2022). arXiv:2204.13394 [hep-ex].
- E: Cortina Gil, E. and others, HIKE Collaboration: *HIKE, High Intensity Kaon Experiments at the CERN SPS: Letter of Intent.* (2022). CERN-SPSC-2022-031, SPSC-I-257, arXiv:2211.16586 [hep-ex].
- E: Sozzi, Marco S.: *Kaon physics and discrete symmetries.* *Int. J. Mod. Phys. A* 26 3967–3985 (2011).
- E: Sozzi, Marco S.: *Current and future kaon experiments.* (2011). arXiv:1102.0893 [hep-ex].
- E: , NA62 Collaboration: *Technical Design Document.* (2010). NA62-10-07.
- E: Buras, Andrzej J. and Schwab, Felix and Uhlig, Selma: *Waiting for precise measurements of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and $K_L \rightarrow \pi^0 \nu \bar{\nu}$.* *Rev. Mod. Phys.* 80 965–1007 (2008). TUM-HEP-547, MPP-2004-47, arXiv:hep-ph/0405132.
- E: Sozzi, Marco S.: *Status and prospects for kaon physics.* *Phys. Scripta* 72 CN1–CN13 (2005).
- E: Sozzi, M. S.: *The unfailing effectiveness of physics with kaons: Suite for orchestra and soli.* (2004).
- E: Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment.* *Nucl. Instrum. Meth. A* 502 62–66 (2003). FERMILAB-CONF-02-192-E, UASLP-IF-02-008, arXiv:hep-ex/0209020.
- E: Adler, S and others, E787 Collaboration: *Search for the decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ in the momentum region $P(\pi)$ less than 195-MeV/c.* *Phys. Lett. B* 537 211–216 (2002). BNL-68967, arXiv:hep-ex/0201037.
- E: Nappi, A.: *Future prospects for K experiments.* *International Europhysics Conference on High Energy Physics. Proceedings of Science HEP2001 074* (2001).

22. Milstene, C. and others, CKM Collaboration: *Charged kaons at the main injector (CKM).* *Nucl. Phys. B Proc. Suppl.* 93 348–351 (2001). arXiv:hep-ex/0009046.

5 Citations:

- T: Fonseca Vázquez, María José: *Producción de K_S^0 en CERN-NA62.* (2022).
- E: Ceccucci, Augusto: *The NA62 project at CERN: $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at the SPS.* (2009).
- E: Landsberg, L. G.: *Flavor changing neutral currents and rare decays of K mesons.* *Phys. Usp.* 46 995–1051 (2003).
- E: Landsberg, L. G.: *Rare K meson decays, standard model, and new physics.* *Phys. Atom. Nucl.* 64 1729–1795 (2001).
- E: Bernabeu, Jose: *Hyperons, charm and beauty hadrons: Conclusion and outlook.* *Nucl. Phys. B Proc. Suppl.* 93 369–380 (2001). arXiv:hep-ph/0011265.

21. RUSS, J. and others, SELEX Collaboration: *Recent results from SELEX.* (2000). arXiv:hep-ex/0010011.

5 Citations:

- E: Rosner, Jonathan L.: *Effects of S-wave thresholds.* *Phys. Rev. D* 74 076006 (2006). EFI-06-14, arXiv:hep-ph/0608102.
- E: Piskounova, O.: *Leading effects in the spectra of Lambda/c and anti-Lambda/c produced in pi- p interactions.* (2003).
- T: Akgun, Ugur: *CMS HF calorimeter PMTs and Xi(c)+ lifetime measurement.* doi:10.2172/15020228 (2003). UMI-31-14464, FERMILAB-THESIS-2003-43 .
- T: Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes.* doi:10.2172/1421447 (2000). UMI-30-02781, FERMILAB-THESIS-2000-09 .
- E: Golutvin, A.: *Heavy flavor physics.* (2000).

20. Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías.* *Revista Mexicana de Física* 46 S2 37-38 (2000). UASLP-IF-00-002.

19. Engelfried, Jurgen: *Experimental techniques.* *AIP Conf. Proc.* 531 102–121 (2000). arXiv:hep-ex/9912036.

18. Iori, M. and others, SELEX Collaboration: *Charm hadroproduction results from SELEX*. (1999). [arXiv:hep-ex/9910039](#).

16 Citations:

- E: Piskounova, Olga I.: *Leading effects in the spectra of Lambda(c) and anti-Lambda(c) produced in Sigma- p, pp and pi- p interactions*. *Phys. Atom. Nucl.* **66** 307–312 (2003). [arXiv:hep-ph/0202005](#).
- E: Moinester, Murray, COMPASS Collaboration: *Pion and kaon polarizabilities at CERN COMPASS*. *Czech. J. Phys.* **53** B169–B187 (2003). [arXiv:hep-ex/0301024](#).
- E: Moinester, Murray: *Hybrid meson production via ultraperipheral pion scattering from a virtual photon target*. (2003). [arXiv:hep-ex/0301023](#).
- E: Meadows, B., E791 Collaboration: *Production and Decay of the Λ_c Charmed Baryon from Fermilab E791*. *AIP Conf. Proc.* **619** 547–550 (2002). FERMILAB-CONF-01-350-E, [arXiv:hep-ex/0112025](#).
- E: Likhoded, A. K. and Slabospitsky, S. R.: *Asymmetry in charmed particles production in Sigma- beam*. *Phys. Atom. Nucl.* **65** 127–134 (2002). [arXiv:hep-ph/0008230](#).
- E: de Miranda, J. M.: *The physics of the heavy quark program*. *Comments Nucl. Part. Phys.* **2** A362–A376 (2002).
- T: Santo Nicola, Marcello: *Production Asymmetry of Λ^0 and $\bar{\Lambda}^0$ in π^\pm, K^\pm, p - Nucleon Collisions at 250 GeV/c*. [doi:10.2172/1156382](#) (2001). FERMILAB-THESIS-2001-06 .
- E: Piskunova, O. I.: *Cross sections for B meson hadroproduction and up-to-date models*. *Phys. Atom. Nucl.* **64** 342–345 (2001).
- E: Piskunova, O. I.: *Leading/nonleading charm-production asymmetry in Sigma- p interactions*. *Phys. Atom. Nucl.* **64** 98–102 (2001).
- E: Piskounova, O. I.: *B meson hadroproduction cross-sections and up to date models*. *Phys. Atom. Nucl.* **64** 392 (2001). [arXiv:hep-ph/0001252](#).
- E: Appel, Jeffrey A.: *Review of heavy quark production at fixed target experiments*. *Frascati Phys. Ser.* **20** 155–172 (2001). FERMILAB-CONF-00-303-E, [arXiv:hep-ex/0011101](#).
- E: Anjos, J. C. and Magnin, J. and Herrera, G.: *On the intrinsic charm and the recombination mechanisms in charm hadron production*. *Phys. Lett. B* **523** 29–34 (2001). CBPF-NF-053-01, [arXiv:hep-ph/0109185](#).
- E: Magnin, J. and Mendoza Navas, L. M.: *$\Lambda_c^+ - \Lambda_c^-$ production asymmetries in two component models*. *Third Latin American Symposium on High Energy Physics. Proceedings of Science silafae-III 020* (2000). [arXiv:hep-ph/0009198](#).
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* **46** S2 37-38 (2000). UASLP-IF-00-002.
- A: Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- E: Anjos, J. C. and Cuautle, E., Focus Collaboration: *Recent results on charm physics from Fermilab*. *AIP Conf. Proc.* **531** 172–198 (2000). CBPF-NF-026-00, [arXiv:hep-ph/0005057](#).

17. Moinester, M. A. and others, SELEX Collaboration: *Inelastic electron pion scattering at FNAL (SELEX)*. (1999). [arXiv:hep-ex/9903039](#).

8 Citations:

- E: Fuchs, T. and Pasquini, B. and Unkmeir, C. and Scherer, S.: *Virtual Compton scattering off the pseudoscalar meson octet*. *Czech. J. Phys.* **52** B135–B144 (2002). MKPH-T-00-21, [arXiv:hep-ph/0010218](#).
- E: L'vov, A. I. and Scherer, S. and Pasquini, B. and Unkmeir, C. and Drechsel, D.: *Generalized dipole polarizabilities and the spatial structure of hadrons*. *Phys. Rev. C* **64** 015203 (2001). MKPH-T-01-02, ETC-01-002, [arXiv:hep-ph/0103172](#).
- E: Hannah, Torben: *The Anomalous process $\gamma \pi \rightarrow \pi \pi$ to two loops*. *Nucl. Phys. B* **593** 577–595 (2001). [arXiv:hep-ph/0102213](#).
- E: Ametller, L. and Knecht, M. and Talavera, P.: *Electromagnetic corrections to $\gamma \pi^{+-} \rightarrow \pi^0 \pi^{+-}$* . *Phys. Rev. D* **64** 094009 (2001). [arXiv:hep-ph/0107127](#).
- E: Unkmeir, C. and Scherer, S. and L'vov, A. I. and Drechsel, D.: *Generalized polarizabilities of the pion in chiral perturbation theory*. *Phys. Rev. D* **61** 034002 (2000). MKPH-T-99-10, [arXiv:hep-ph/9904442](#).
- A: Morelos Pineda, Antonio: *SELEX*. *AIP Conf. Proc.* **531** 255–258 (2000). UASLP-IF-00-01, [arXiv:hep-ex/0002045](#).
- T: Krueger, Henning: *Investigation of elastic hadron electron scattering at 540 GeV/c in order to measure the electromagnetic charge radius of the proton*. [doi:10.2172/1421421](#) (2000). FERMILAB-THESIS-2000-43 .
- E: Scherer, S.: *Generalized dipole polarizabilities of the pion*. (1999). MKPH-T-99-19, [arXiv:hep-ph/9907416](#).

16. Gough Eschrich, Ivo M. and others, SELEX Collaboration: *Hyperon physics results from SELEX*. *AIP Conf. Proc.* **459** 303–313 (1999). [arXiv:hep-ex/9812019](#).
- 6 Citations:
- E:** Buchmann, A. J. and Henley, E. M.: *Quadrupole moments of baryons*. *Phys. Rev. D* **65** 073017 (2002). [arXiv:1908.09910 \[hep-ph\]](#).
- A:** Morelos Pineda, Antonio: *SELEX*. *AIP Conf. Proc.* **531** 255–258 (2000). UASLP-IF-00-01, [arXiv:hep-ex/0002045](#).
- E:** Lipkin, Harry J.: *Theoretical summary of the HADRON99 conference*. *Nucl. Phys. A* **675** 443C–452C (2000). TAUP-2591-99, WIS-99-33-DPP, ANL-HEP-CP-99-116, TEL-AVIV-UNIVERSITY-PREPRINT-TAUP-2591-99, WEIZMANN-PREPRINT –WIS-99-33-NOV-DPP, ARGONNE-PREPRINT-ANL-HEP-CP-99-116, [arXiv:hep-ph/9911246](#).
- E:** Hackett-Jones, Emily J. and Leinweber, Derek Bruce and Thomas, Anthony William: *Incorporating chiral symmetry and heavy quark theory in extrapolations of octet baryon charge radii*. *Phys. Lett. B* **494** 89–99 (2000). [arXiv:hep-lat/0008018](#).
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
- E:** Lipkin, Harry J.: *The New sigma(tot) (Sigma p) data, the new PDG fit to hadron total cross-sections and the TCP alternative*. (1999). TAUP-2600-99, WIS-99-34-DPP, [arXiv:hep-ph/9911259](#).
15. Russ, J. and others, SELEX Collaboration: *Radiative width of the a(2) meson*. (1998). [arXiv:hep-ex/9901014](#).
- 7 Citations:
- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment*. [doi:10.2172/1155869](#) (2006). [FERMILAB-THESIS-2006-91](#) .
- T:** Mattson, Mark Edward: *Search for Baryons with Two Charm Quarks*. [doi:10.2172/1420963](#) (2002). [FERMILAB-THESIS-2002-03](#), [UMI-30-43381](#) .
- A:** Molchanov, V. V. and others, SELEX Collaboration: *Radiative Decay Width of the $a_2(1320)^-$ Meson*. *Phys. Lett. B* **521** 171–180 (2001). FERMILAB-PUB-01-256-E, IHEP-2001-34, [arXiv:hep-ex/0109016](#).
- A:** Morelos Pineda, Antonio: *SELEX*. *AIP Conf. Proc.* **531** 255–258 (2000). UASLP-IF-00-01, [arXiv:hep-ex/0002045](#).
- T:** Kushnirenko, Alexander Yevgenievich: *Precision Measurements of the Λ_c^+ and D^0 Lifetimes*. [doi:10.2172/1421447](#) (2000). [UMI-30-02781](#), [FERMILAB-THESIS-2000-09](#) .
- T:** Krueger, Henning: *Investigation of elastic hadron electron scattering at 540 GeV/c in order to measure the electromagnetic charge radius of the proton*. [doi:10.2172/1421421](#) (2000). [FERMILAB-THESIS-2000-43](#) .
- A:** Engelfried, Jurgen: *Experimental techniques*. *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).
14. Russ, J. and others, SELEX Collaboration: *First charm hadroproduction results from SELEX*. (1998). [arXiv:hep-ex/9812031](#).
- 40 Citations:
- E:** Brodsky, S. J. and Bednyakov, V. A. and Lykasov, G. I. and Smiesko, J. and Tokar, S.: *The Physics of Heavy Quark Distributions in Hadrons: Collider Tests*. *Prog. Part. Nucl. Phys.* **93** 108–142 (2017). [arXiv:1612.01351 \[hep-ph\]](#).
- A:** Nigmatkulov, G. A. and others, SELEX Collaboration: *The Transverse Momentum Dependence of Charged Kaon Bose–Einstein Correlations in the SELEX Experiment*. *Phys. Lett. B* **753** 458–464 (2016). FERMILAB-PUB-15-054-PPD, [arXiv:1501.04316 \[hep-ex\]](#).
- E:** Asratyan, A. E. and Matveev, V. A.: *Search for $\Theta^+(1540)$ emission in hadron–nucleus collisions at 400–700 GeV*. (2016). [arXiv:1608.08523 \[hep-ex\]](#).
- T:** Zhong, Liang: *Search for the doubly charmed baryon at LHCb*. (2014). CERN-THESIS-2014-231.
- A:** Nigmatkulov, G.A. and Romanov, D.A. and Sinev, G.V.: *PARNOE ROZhDENIE Φ -MEZONOV V Σ^- A VZA-IMODEISTVIYaKh PRI NACHAL'NOI ENERGIИ 600 GEV*. *Vestnik Nacional'nogo issledovatel'skogo yadernogo universiteta BkMIFIB* **1** 26-30 (2012).
- E:** Savchenko, A. A. and Romanov, D. A., SELEX Collaboration: *Measurement of Lambda Lambda spin correlations in the SELEX experiment*. *J. Phys. Conf. Ser.* **295** 012089 (2011).
- A:** Blanco-Covarrubias, A. and others, SELEX Collaboration: *Nuclear Dependence of Charm Production*. *Eur. Phys. J. C* **64** 637–644 (2009). FERMILAB-PUB-09-031-E, UASLP-IF-09-001, [arXiv:0902.0355 \[hep-ex\]](#).
- A:** Vazquez-Jauregui, E. and others, SELEX Collaboration: *First Observation of the Cabibbo-Suppressed Decays $\Xi_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$ and $\Xi_c^+ \rightarrow \Sigma^- \pi^+ \pi^+$ and Measurement of their Branching Ratios*. *Phys. Lett. B* **666** 299–304 (2008). UASLP-IF-08-001, FERMILAB-PUB-08-084-E, [arXiv:0804.2298 \[hep-ex\]](#).
- A:** Iori, M. and others, SELEX Collaboration: *Measurement of the Ω_c^0 Lifetime*. (2007). FERMILAB-PUB-07-011-E, [arXiv:hep-ex/0701021](#).

- T:** Evdokimov, Anatoly: *Electromagnetic calorimeter for study properties of particles and resonances in the SELEX experiment.* doi:10.2172/1155869 (2006). FERMILAB-THESIS-2006-91 .
- A:** Blanco-Covarrubias, A. and Engelfried, J., SELEX Collaboration: *Search of the exotic state $U(3100)$ in SELEX.* J. Phys. Conf. Ser. 37 11–15 (2006).
- A:** Ocherashvili, A. and others, SELEX Collaboration: *Confirmation of the Double Charm Baryon $\Xi_{cc}^+(3520)$ via its Decay to pD^+K^- .* Phys. Lett. B 628 18–24 (2005). FERMILAB-PUB-04-082-E, arXiv:hep-ex/0406033.
- A:** Engelfried, J., SELEX Collaboration: *The experimental discovery of double-charm baryons.* Nucl. Phys. A 752 121–128 (2005).
- A:** Molchanov, V. V. and others, SELEX Collaboration: *Upper limit on the decay $\Sigma(1385)^- \rightarrow \Sigma^- \gamma$, and Cross Section for $\gamma \Sigma^- \rightarrow \Lambda \pi^-$.* Phys. Lett. B 590 161–169 (2004). FERMILAB-PUB-04-020-E, arXiv:hep-ex/0402026.
- A:** Evdokimov, A. V. and others, SELEX Collaboration: *First Observation of a Narrow Charm-Strange Meson $D_{sJ}^+(2632) \rightarrow D_s^+ \eta$ and $D^0 K^+$.* Phys. Rev. Lett. 93 242001 (2004). FERMILAB-PUB-04-087-E, arXiv:hep-ex/0406045.
- A:** Jun, Soon Yung, SELEX Collaboration: *New particle observations in SELEX.* (2004). FERMILAB-CONF-04-450-E.
- A:** Iori, M., SELEX Collaboration: *Measurement of the Omega/c0 lifetime.* Frascati Phys. Ser. 36 125–131 (2004).
- A:** Moinester, M. A. and others, SELEX Collaboration: *First Observation of Doubly Charmed Baryons.* Czech. J. Phys. 53 B201–B213 (2003). FERMILAB-CONF-02-380-E, arXiv:hep-ex/0212029.
- A:** Russ, J. S., SELEX Collaboration: *First Observation of a Family of Double Charm Baryons.* Frascati Phys. Ser. 31 25–28 (2003). FERMILAB-CONF-02-236-E, arXiv:hep-ex/0209075.
- E:** Piskounova, Olga I.: *Leading effects in the spectra of Lambda(c) and anti-Lambda(c) produced in Sigma- p, pp and pi- p interactions.* Phys. Atom. Nucl. 66 307–312 (2003). arXiv:hep-ph/0202005.
- A:** Iori, M., SELEX Collaboration: *SeleX results on D/s^{+-} , D^{+-} , D^{*+-} and $D0$ / anti- $D0$ production.* Nucl. Phys. B Proc. Suppl. 115 103–106 (2003).
- A:** Engelfried, J. and Filimonov, I. S. and Kilmer, J. and Kozhevnikov, A. P. and Kubarovsky, V. P. and Molchanov, V. V. and Nemitkin, A. V. and Ramberg, E. and Rud, V. I. and Stutte, L.: *SELEX RICH Performance and Physics Results.* Nucl. Instrum. Meth. A 502 285–288 (2003). FERMILAB-CONF-02-181-E, UASLP-IF-02-007, arXiv:hep-ex/0208046.
- A:** Mattson, M. and others, SELEX Collaboration: *First Observation of the Doubly Charmed Baryon Ξ_{cc}^+ .* Phys. Rev. Lett. 89 112001 (2002). FERMILAB-PUB-02-183-E, arXiv:hep-ex/0208014.
- A:** Garcia, F. G. and others, SELEX Collaboration: *Hadronic Production of Λ_c from 600-GeV/c π^- , Σ^- and p Beams.* Phys. Lett. B 528 49–57 (2002). FERMILAB-PUB-01-258-E, arXiv:hep-ex/0109017.
- T:** Medellin Zapata, Juan: *Investigation of the decay $\Lambda_c^+ \rightarrow pK^- \pi^+$.* doi:10.2172/1155152 (2002). FERMILAB-MASTERS-2002-01 .
- A:** Molchanov, V. V. and others, SELEX Collaboration: *Radiative Decay Width of the $a_2(1320)^-$ Meson.* Phys. Lett. B 521 171–180 (2001). FERMILAB-PUB-01-256-E, IHEP-2001-34, arXiv:hep-ex/0109016.
- A:** Iori, M. and others, SELEX Collaboration: *Measurement of the D_s^\pm Lifetime.* Phys. Lett. B 523 22–28 (2001). FERMILAB-PUB-01-086-E, arXiv:hep-ex/0106005.
- A:** Engelfried, J. and others, SELEX Collaboration: *Recent Results on Charm and Hyperon Physics from SELEX.* Frascati Phys. Ser. 20 217–228 (2001). UASLP-IF-00-05, FERMILAB-CONF-00-309-E, arXiv:hep-ex/0012004.
- A:** Iori, M. and others, SELEX Collaboration: *Recent results from SELEX.* Nucl. Phys. B Proc. Suppl. 93 109–112 (2001). FERMILAB-CONF-00-391-E, arXiv:hep-ex/0009049.
- A:** Kushnirenko, A. and others, SELEX Collaboration: *Precision Measurements of the Λ_c^+ and D^0 lifetimes.* Phys. Rev. Lett. 86 5243–5246 (2001). FERMILAB-PUB-00-255-E, arXiv:hep-ex/0010014.
- E:** Piskounova, O. I.: *B meson hadroproduction cross-sections and up to date models.* Phys. Atom. Nucl. 64 392 (2001). arXiv:hep-ph/0001252.
- E:** Adamovich, M. I. and others, WA99 Collaboration: *Determination of the total c anti-c production cross-section in 340-GeV/c sigma- nucleus interactions.* Eur. Phys. J. C 13 247–254 (2000). arXiv:hep-ex/9908061.
- A:** RUSS, J. and others, SELEX Collaboration: *Recent results from SELEX.* (2000). FERMILAB-CONF-00-252-E, CMU-HEP-00-04, arXiv:hep-ex/0010011.
- A:** Morelos Pineda, Antonio: *SELEX.* AIP Conf. Proc. 531 255–258 (2000). UASLP-IF-00-01, arXiv:hep-ex/0002045.
- A:** Engelfried, Jurgen: *Experimental techniques.* AIP Conf. Proc. 531 102–121 (2000). UASLP-IF-99-01, arXiv:hep-ex/9912036.
- T:** Steinhart, Jorn: *Measurement of the total $c\bar{c}$ -photoproduction cross-section by the reconstruction of Λ_c^- -baryons using the improved dE/dx particle identification at the H1 experiment at HERA.* (1999). DESY-THESIS-1999-029.
- E:** Siebert, H. W., WA99 Collaboration: *Studies of charm production and a search for exotic states at the CERN SPS hyperon beam.* Nucl. Instrum. Meth. A 433 352–356 (1999).
- E:** Paul, Stephan: *Heavy baryons: Different facets of experimental results.* (1999). arXiv:hep-ph/9903311.

- T: Zacarias, Galileo Dominguez: *Angular distribution of $K_s^0 \rightarrow \pi^+\pi^-$ in E781*. (1998). [FERMILAB-MASTERS-1998-04](#).
- E: Piskounova, O. I.: *Leading / nonleading charm production asymmetry in Sigma- p interactions*. (1998). [arXiv:hep-ph/9904208](#).
13. Coleman, R. and others, CKM Collaboration: *A Proposal for a Precision Measurement of the Decay $K^+ \rightarrow \pi^+\nu\bar{\nu}$ and Other Rare K^+ Processes at Fermilab Using the Main Injector*. (1998).
- 27 Citations:
- E: Ceccucci, Augusto: *Rare Kaon Decays*. [Ann. Rev. Nucl. Part. Sci. 71 113–137](#) (2021).
- E: Lenti, M.: *The NA62 RICH detector*. [Nucl. Phys. B Proc. Suppl. 197 117–120](#) (2009).
- E: Comfort, Joseph and others: *Measurement of the $K^+ \rightarrow \pi^+\nu\bar{\nu}$ anti- ν Decay at Fermilab*. [doi:10.2172/1000253](#) (2009). [FERMILAB-PROPOSAL-0996](#).
- E: Anzivino, G. and others: *Construction and test of a RICH prototype for the NA62 experiment*. [Nucl. Instrum. Meth. A 593 314–318](#) (2008).
- E: Lenti, M.: *A magnetic spectrometer RICH*. [Nucl. Instrum. Meth. A 574 251–254](#) (2007).
- A: Engelfried, J. and Cooper, P. S. and Morelos, A. and Torres, I., CKM Collaboration: *Two RICH Detectors as Velocity Spectrometers in the CKM Experiment*. [Nucl. Instrum. Meth. A 502 62–66](#) (2003). [FERMILAB-CONF-02-192-E](#), [UASLP-IF-02-008](#), [arXiv:hep-ex/0209020](#).
- A: Torres, Ibrahim and Engelfried, Jurgen and Morelos Pineda, Antonio: *Simulation of a RICH detector for the CKM experiment*. (2002). [UASLP-IF-02-001](#), [arXiv:hep-ex/0202002](#).
- E: Rosner, Jonathan L.: *Theoretical issues in the Tevatron era*. [Comments Nucl. Part. Phys. 2 A328–A345](#) (2002). [EFI-2000-24](#), [arXiv:hep-ph/0007194](#).
- T: Freund, Martin: *Messung der fundamentalen Neutrinoparameter mittels Long-Baseline-Oszillationsexperimenten an zukuenftigen Neutrino Fabriken*. (2002).
- E: Buras, A. J.: *CP violation, rare decays and the CKM matrix*. [AIP Conf. Proc. 623 3–35](#) (2002).
- E: Buras, Andrzej J.: *Flavor dynamics: CP violation and rare decays*. [Subnucl. Ser. 38 200–337](#) (2002). [TUM-HEP-402-01](#), [arXiv:hep-ph/0101336](#).
- A: Nguyen, H., CKM Collaboration: *CKM - Charged kaons at the Main Injector*. [Frascati Phys. Ser. 20 91–98](#) (2001).
- E: Hocker, Andreas and Lacker, H. and Laplace, S. and Le Diberder, F.: *A New approach to a global fit of the CKM matrix*. [Eur. Phys. J. C 21 225–259](#) (2001). [LAL-01-06](#), [arXiv:hep-ph/0104062](#).
- A: Cooper, P. S., CKM Collaboration: *CKM: Charged kaons at the main injector*. [Nucl. Phys. B Proc. Suppl. 99 121–126](#) (2001). [FERMILAB-CONF-00-344-E](#).
- A: Milstene, C. and others, CKM Collaboration: *Charged kaons at the main injector (CKM)*. [Nucl. Phys. B Proc. Suppl. 93 348–351](#) (2001). [FERMILAB-CONF-00-229](#), [arXiv:hep-ex/0009046](#).
- E: Buchalla, Gerhard: *Kaon and charm physics: Theory*. [doi:10.1142/9789812811509%5F0004](#) (2001). [CERN-TH-2001-041](#), [arXiv:hep-ph/0103166](#).
- E: Rosner, Jonathan L.: *CP violation: A Brief review*. [AIP Conf. Proc. 540 283–304](#) (2000). [EFI-2000-16](#), [arXiv:hep-ph/0005258](#).
- A: Morelos Pineda, Antonio: *SELEX*. [AIP Conf. Proc. 531 255–258](#) (2000). [UASLP-IF-00-01](#), [arXiv:hep-ex/0002045](#).
- E: Molzon, William: *Quark mixing matrix studies and lepton flavor violation searches using rare decays of kaons*. [Int. J. Mod. Phys. A 15S1 140–156](#) (2000). [arXiv:hep-ex/0001024](#).
- E: Littenberg, L.: *Rare kaon decays*. [doi:10.1007/BF02683457](#) (2000). [BNL-67772](#), [arXiv:hep-ex/0010048](#).
- A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. [Revista Mexicana de Física 46 S2 37–38](#) (2000). [UASLP-IF-00-002](#).
- A: Engelfried, Jurgen: *Experimental techniques*. [AIP Conf. Proc. 531 102–121](#) (2000). [UASLP-IF-99-01](#), [arXiv:hep-ex/9912036](#).
- E: Quigg, Chris: *CP violation and rare decays*. [Frascati Phys. Ser. 16 751–782](#) (1999). [FERMILAB-CONF-00-002-T](#), [arXiv:hep-ph/0001029](#).
- E: Montgomery, Hugh E.: *Physics with the main injector*. (1999). [FERMILAB-CONF-99-057](#), [arXiv:hep-ex/9904019](#).
- E: Buchalla, Gerhard: *Theoretical update on rare K decays*. [Frascati Phys. Ser. 16 121–136](#) (1999). [CERN-TH-2000-057](#), [arXiv:hep-ph/0002207](#).
- E: Buchalla, Gerhard: *CP violation and rare kaon decays*. (1999). [CERN-TH-99-395](#), [arXiv:hep-ph/9912369](#).
- A: Littenberg, L.: *Rare kaon, muon, and pion decay*. [Frascati Phys. Ser. 11 317–334](#) (1998).
12. Adamovich, M. I. and others, WA89 Collaboration: *Ξ^- production by Sigma-, pi- and neutrons in the hyperon beam experiment at CERN*. [Nucl. Phys. B Proc. Suppl. 55 14–18](#) (1997). [arXiv:hep-ex/9703007](#).
- 1 Citation:
- E: Pramanik, Dibyadyuti and others: *Shape coexistence in ^{153}Ho* . [Phys. Rev. C 94 024311](#) (2016). [arXiv:1607.06954 \[nucl-ex\]](#).

11. Engelfried, Jurgen: *Charm and bottom production in FNAL fixed target experiments.* (1997).
10. Adamovich, M. I. and others, WA89 Collaboration: *New data on the Omega/c0 from the CERN hyperon beam experiment WA89.* (1995).
9. Oleynik, G. and Engelfried, J. and Mengel, L. and Moore, Carmenita and Pordes, Ruth and Udumula, L. and Votava, M. and Van Drunen, E. and Zioulas, G.: *Run control techniques for the FermiLab DART data acquisition system.* (1995).
8. Meadows, J. T. and Anderson, J. T. and Cooper, P. S. and Engelfried, J. and Franzen, J. W. and Forster, Robert G. and Levinson, F. and Rawls, J. and Haber, S.: *FOCEX: A Fiber optic cable extender for a high speed parallel RS485 data cable.* (1995).

3 Citations:

- E:** White, C. G and others: *Upgraded DAQ system for the HyperCP experiment.* [Nucl. Instrum. Meth. A 474 67–85](#) (2001).
- E:** Chen, Y. C. and others: *A high-throughput data acquisition system for the HyperCP experiment.* [Nucl. Instrum. Meth. A 455 424–432](#) (2000).
- E:** Kaplan, D. M. and others, E-871 Collaboration: *The HyperCP data acquisition system.* (1997). FERMILAB-CONF-97-220-E.

7. Pordes, Ruth and others: *Fermilab’s DART DA system.* (1994).

9 Citations:

- E:** White, C. G. and others: *Tripling the data set for the HyperCP experiment.* [IEEE Trans. Nucl. Sci. 49 568-576](#) (2002).
- E:** White, C. G and others: *Upgraded DAQ system for the HyperCP experiment.* [Nucl. Instrum. Meth. A 474 67–85](#) (2001).
- A:** Votava, M., CDF Online, D0 Online, DART, ODS, ESE Dept in the Computing Division Collaboration: *Data acquisition systems at Fermilab.* [IEEE Trans. Nucl. Sci. 47 103–108](#) (2000). FERMILAB-CONF-99-180.
- E:** Chen, Y. C. and others: *A high-throughput data acquisition system for the HyperCP experiment.* [Nucl. Instrum. Meth. A 455 424–432](#) (2000).
- E:** Kaplan, D. M. and others, E-871 Collaboration: *The HyperCP data acquisition system.* (1997). FERMILAB-CONF-97-220-E.
- A:** Oleynik, G. and others: *Fermilab DART Run Control.* [IEEE Trans. Nucl. Sci. 43 20–24](#) (1996). FERMILAB-CONF-95-118.
- A:** Oleynik, G. and Engelfried, J. and Mengel, L. and Moore, Carmenita and Pordes, Ruth and Udumula, L. and Votava, M. and Van Drunen, E. and Zioulas, G.: *Run control techniques for the FermiLab DART data acquisition system.* (1995). FERMILAB-CONF-95-324.
- A:** Engelfried, Jurgen, E781 Collaboration: *The E781 trigger and data acquisition system.* (1994). FERMILAB-CONF-94-284-E.
- A:** Berg, David and Black, Dennis and Slimmer, Dave and Engelfried, Jurgen and O’Dell, Vivian: *Data flow manager for DART.* (1994). FERMILAB-CONF-94-104.

6. Engelfried, Jurgen, E781 Collaboration: *The E781 trigger and data acquisition system.* (1994).

4 Citations:

- T:** Garcia, Fernanda G.: *Hadroproduction of the Λ_c Charmed Baryon by the SELEX-E781 Experiment.* [doi:10.2172/1421474](#) (2000). [FERMILAB-THESIS-2000-40](#) .
- T:** Ozel, Erdogan: *Magnetic Field Values in SELEX (E781) Charm Baryon Production Experiment.* (1998). [FERMILAB-MASTERS-1998-02](#) .
- T:** Mathew, Prakash Parayil: *Construction and Evaluation of a High Resolution Silicon Microstrip Tracking Detector, and, Utilization to Determine Interaction Vertices.* [doi:10.2172/1421704](#) (1997). [FERMILAB-THESIS-1997-18, UMI-98-23298](#) .
- T:** Meier, Dirk: *Structure of the reciprocal effect counter for the trigger in the E781 / SELEX-Experiment.* [doi:10.2172/15016993](#) (1995). [FERMILAB-MASTERS-1995-05](#) .

5. Berg, David and Black, Dennis and Slimmer, Dave and Engelfried, Jurgen and O'Dell, Vivian: *Data flow manager for DART*. (1994).

3 Citations:

A: Oleynik, G. and others: *Fermilab DART Run Control*. [IEEE Trans. Nucl. Sci. 43 20–24](#) (1996). FERMILAB-CONF-95-118.

A: Pordes, Ruth and others: *Fermilab's DART DA system*. (1994). FERMILAB-CONF-94-103.

A: Engelfried, Jurgen, E781 Collaboration: *The E781 trigger and data acquisition system*. (1994). FERMILAB-CONF-94-284-E.

4. Beusch, W. and others: *The rich counter in the CERN hyperon beam experiment*. [AIP Conf. Proc. 272 1671-1674](#) (1993).

3. Engelfried, Jurgen: *Einsatz eines Ringabbildenden Cherenkovzählers zur Suche nach dem exotischen Zustand $U(3100)$* . (February 1992). Ph.D. Thesis, Heidelberg University,.

13 Citations:

A: Blanco-Covarrubias, A. and Engelfried, J., SELEX Collaboration: *Search of the exotic state $U(3100)$ in SELEX*. [J. Phys. Conf. Ser. 37 11–15](#) (2006).

A: Engelfried, Jurgen: *Experimental techniques*. [AIP Conf. Proc. 531 102–121](#) (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).

T: Thilmann, Oliver: *Operation of a ring imaging Cerenkov detector and measurement of the total c anti- c production cross-section in 340-GeV/c Sigma- nucleus interactions*. (1997).

T: Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons*. [doi:10.2172/1372289](#) (1996). [FERMILAB-THESIS-1996-76](#) .

T: Schmitt, Lars: *Investigation of the lifetime of the doubly strange, charmed baryon Ω_c^0 at the hyperon beam experiment WA89*. (1995).

T: Thilmann, Oliver: *Betrieb und Kalibration des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahlxperiment WA8*. (1994). Diploma Thesis, Universität Heidelberg.

T: Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkovdetektors und Suche nach der exotischen $U(3100)$ -Resonanz*. (1994). Ph.D. Thesis, Universität Mainz.

T: Dropmann, Frank: *Observation of the decays of the charmed-strange baryons Ξ_c^+ and Ξ_c^0 in the hyperon beam experiment WA89*. (1994).

T: Boss, M.: *Betrieb und Langzeitverhalten des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahlxperiment WA89*. (1994). Diploma Thesis, Universität Heidelberg.

T: Trombini, Andrea: *Inclusive production of Ξ^* resonances in $\Sigma^- - C$ and $\Sigma^- - Cu$ interactions at 300 GeV/c*. (1992). Ph.D. Thesis, Universität Heidelberg.

T: Kluth, Stephan: *Aufbau und Betrieb UV-empfindlicher Driftkammer*. (1991). Diploma Thesis, Universität Heidelberg.

T: Kallakowski, Thomas: *Untersuchung der Produktion von Ξ_c^+ in $\Sigma^- - p$ Wechselwirkungen bei $\sqrt{s} = 25 \text{ GeV}/c^2$* . (1991). Ph.D. Thesis, Universität Heidelberg.

T: Wälder, Georg: *Transmissionsmessungen im Vakuum-Ultraviolett und Entwicklung und Test des Prototyps einer Driftkammer zum Nachweis einzelner Photonen*. (1989). Diploma Thesis, Universität Heidelberg.

2. Forino, A. and others: *PROPOSAL FOR A NEW HYPERON BEAM EXPERIMENT AT THE CERN SPS USING THE OMEGA FACILITY*. (1987).

29 Citations:

A: Engelfried, Jurgen: *Experimental techniques*. [AIP Conf. Proc. 531 102–121](#) (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](#).

T: Thilmann, Oliver: *Operation of a ring imaging Cerenkov detector and measurement of the total c anti- c production cross-section in 340-GeV/c Sigma- nucleus interactions*. (1997).

T: Lopez-Fernandez, Ricardo: *Identificación de partículas producidas en interacción $p - N$ mediante el E781 RICH*. (August 1997). Master Thesis, Instituto de Física, Universidad Autónoma de San Luis Potosí.

T: Fournier, Alain: *Study of the production of the charmed hadrons D^\pm and Λ_c^+ in the reaction (Σ^-, N) at 330 GeV/c*. (1997).

A: Muller, U., WA89 Collaboration: *Search for charmed-strange baryons in experiment WA89*. [Nucl. Instrum. Meth. A 371 192–194](#) (1996).

T: Masciocchi, Silvia: *Silicon microstrip detectors and the measurement of lifetimes of charmed hadrons*. [doi:10.2172/1372289](#) (1996). [FERMILAB-THESIS-1996-76](#) .

- T:** Heidrich, M.: *Entwicklung eines Übergangsstrahlungszählers basierend auf Gasmikrostreifendetektoren zur ersten Untersuchung von Σ -e-Streuung am Hyperonenstrahl des CERN.* (May 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Haller, Thomas: *Rekonstruktion von Charm-Baryonen in Zerfallskanälen mit Σ^- Hyperonen und Lebensdauermessung des Charm-Baryons Ξ_c^0 im Hyperonenstrahllexperiment WA89 am CERN.* (December 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Gerassimov, S.: *Measurements of the Ω_c^0 mass and lifetime (in Russian).* (April 1996). Ph.D. Thesis, Lebedev Physical Institute Moscow.
- E:** Bruckner, W. and Kallakowsky, T. and Lauber, H. M. and Michaels, R. and Paul, S. and Povh, B. and Rohrich, K. and Trombini, A.: *The transition radiation detector in the hyperon beam experiment WA89 at CERN.* *Nucl. Instrum. Meth. A* **378** 451–457 (1996).
- T:** Beck, M.: *Einsatz eines hadronischen Spaghetti-Kalorimeters zur Suche nach dem Hexaquark H in Σ^- Nukleon Wechselwirkungen bei $\sqrt{s} = 25 \text{ GeV}/c^2$.* (December 1996). Ph.D. Thesis, Universität Heidelberg.
- T:** Schmitt, Lars: *Investigation of the lifetime of the doubly strange, charmed baryon Ω_c^0 at the hyperon beam experiment WA89.* (1995).
- T:** Ren, A.: *Hadronic weak decays of the charmed doubly-strange baryon Ω_c^0 .* (December 1995). Ph.D. Thesis, Universität Heidelberg.
- T:** Charignon, Francois: *Study of Λ_c^+ production and search for the pentaquark in the data of the WA89 experiment at CERN.* (1995).
- T:** Werding, Roland: *Construction of a microstrip detector system and investigation of cascade(c)+ baryons in sigma-nucleon reactions.* (1994).
- T:** Walder, Georg: *Employment of a ring imaging Cherenkov detector to look at lambda (c)+ decays.* (1994).
- T:** Thilmann, Oliver: *Betrieb und Kalibration des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA8.* (1994). Diploma Thesis, Universität Heidelberg.
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkovdetektors und Suche nach der exotischen $U(3100)$ -Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
- T:** Haller, Thomas: *Der Neutronentrigger des Hyperonstrahllexperiments WA89.* (1994). Diploma, Universität Heidelberg.
- T:** Dropmann, Frank: *Observation of the decays of the charmed-strange baryons Ξ_c^+ and Ξ_c^0 in the hyperon beam experiment WA89.* (1994).
- T:** Boss, M.: *Betrieb und Langzeitverhalten des Ring-abbildenden-Cerenkov-Zählers am Hyperonstrahllexperiment WA89.* (1994). Diploma Thesis, Universität Heidelberg.
- A:** Walder, G., WA89 Collaboration: *The RICH counter in the CERN hyperon beam experiment.* (1993).
- T:** Albertson, E.: *Search for the H dibaryon in Σ^- - nucleon interactions.* (1993). Ph.D. Thesis, Universität Heidelberg.
- T:** Trombini, Andrea: *Inclusive production of Ξ^* resonances in $\Sigma^- - C$ and $\Sigma^- - Cu$ interactions at 300 GeV/c.* (1992). Ph.D. Thesis, Universität Heidelberg.
- T:** Engelfried, Jurgen: *Einsatz eines Ringabbildenden Cherenkovzählers zur Suche nach dem exotischen Zustand $U(3100)$.* (February 1992). Ph.D. Thesis, Heidelberg University.
- T:** Kluth, Stephan: *Aufbau und Betrieb UV-empfindlicher Driftkammer.* (1991). Diploma Thesis, Universität Heidelberg.
- T:** Godbersen, Malte: *Untersuchung von Di-Lambda Produktion in Sigma - Nukleon Wechselwirkungen.* (1991). Ph.D. Thesis, Universität Heidelberg.
- T:** Wälder, Georg: *Transmissionsmessungen im Vakuum-Ultraviolett und Entwicklung und Test des Prototyps einer Driftkammer zum Nachweis einzelner Photonen.* (1989). Diploma Thesis, Universität Heidelberg.
- A:** Paul, S. and Bruckner, W. and Povh, B. and Dobbeling, H.: *THE EXPERIMENTAL SITUATION OF SIGMA HYPERNUCLEI.* *Nuovo Cim. A* **102** 379–399 (1989).
1. Engelfried, J. and others: *A high-statistics experiment on the $U(3100)$ and on charmed-strange baryons.* (1987). Letter of Intent CERN/SPSC/87-8, SPSC/I165.

5 Citations:

- A:** Engelfried, Jurgen: *Cherenkov Light Imaging: Fundamentals and recent Developments.* *Nucl. Instrum. Meth. A* **639** 1–6 (2011). UASLP-IF-10-001, [arXiv:1009.0052](https://arxiv.org/abs/1009.0052) [physics.ins-det].
- A:** Engelfried, Jurgen: *Experimental techniques.* *AIP Conf. Proc.* **531** 102–121 (2000). UASLP-IF-99-01, [arXiv:hep-ex/9912036](https://arxiv.org/abs/hep-ex/9912036).
- T:** Müller, Ulrich: *Betrieb eines ringabbildenden Tscherenkovdetektors und Suche nach der exotischen $U(3100)$ -Resonanz.* (1994). Ph.D. Thesis, Universität Mainz.
- T:** Martens, Kai: *Die Suche nach dem Zerfall $U^+(3100) \rightarrow \Lambda \bar{p} \pi^+ \pi^+$ in dem Hyperonstrahllexperiment WA89.* (1994). Ph.D. Thesis, Universität Heidelberg.

T: Engelfried, Jurgen: *Einsatz eines Ringabbildenden Cherenkovzählers zur Suche nach dem exotischen Zustand $U(3100)$* . (February 1992). Ph.D. Thesis, Heidelberg University.

48 publications in non-refereed journals, with 418 citations (242 external, 90 auto, and 86 thesis).

Popular–Level Articles

7. Engelfried, Jürgen: *¿Cómo viajan los neutrinos?*. Revista QUO 208 (Marzo 2015).
6. Engelfried, Jürgen: *¿Qué es una cámara de burbujas?*. Revista QUO 203 (Septiembre 2014).
5. Engelfried, J.: *La investigación de los constituyentes más pequeños de la materia*. Universitarios potosinos Nueva Época año 2, número 4 (2006).
4. Engelfried, J. and Morelos, A.: *Conferencia de Fermilab*. A ciencia cierta, (Consejo Potosino de Ciencia y Tecnología) Año 3, Número 14 pagina 3 (1 de enero de 2003).
3. Engelfried, J. and Morelos, A.: *Reunión de la Colaboración CKM en San Luis Potosí*. Boletín de la Sociedad Mexicana de Física vol.16 no.3 167 (2002).
2. Engelfried, J.: *Investigación en Física experimental de Partículas Elementales en el Instituto de Física de la UASLP*. A ciencia cierta, (Consejo Potosino de Ciencia y Tecnología) Año 1, Número 6 pagina 3 (1 de enero de 2001).
1. Engelfried, J. and Morelos, A.: *Reunión de la Colaboración SELEX en San Luis Potosí*. Boletín de la Sociedad Mexicana de Física vol.13 no.2 87 (1999).

7 articles.

Internal / Technical Reports

43. Briano Olvera, A. and Engelfried, J.: *Search for HNL in $\pi e 2$* . NA62 Internal Note NA62-24-03 (May 2024).
42. Anzivino, G. and others: *Light Detection System of the NA62 RICH*. NA62 Internal Note NA62-20-01 (February 2020).
41. Duk, V. and others: *Precise Alignment of the RICH Mirror System of the NA62 Experiment*. NA62 Internal Note NA62-17-03 (May 2017).
40. Engelfried, Jurgen: *$D^{*+} K_S^0$ with recon-recon*. SELEX Internal Note H-898 (March 2013).
39. Engelfried Jurgen and Blanco, E. Alejandro: *Some more combinations for measuring α for charm production*. SELEX Internal Note H-895 (February 2010).
38. Cooper, Peter S. and Engelfried, Jurgen: *Checking the H843-1 Ω_c^0 sample*. SELEX Internal Note H-893 (March 2009).
37. Flores-Castillo, Angel de Jesus and Engelfried, Jurgen: *Search for the Ξ_c^+ candidates lost in pass2*. SELEX Internal Note H-886 (April 2008).
36. Blanco, Alejandro and Engelfried, Jurgen: *Nuclear Dependence of Charm Production*. SELEX Internal Note H-885 (April 2008).
35. Amaro-Reyes, Jorge and Engelfried, Jurgen: *Efficiency of the eTRD in SELEX*. SELEX Internal Note H-878 (January 2007).

34. Engelfried Jurgen and Blanco, E. Alejandro and Sanchez, Jose Luis: *A Acceptance and Efficiency as functions of x_F and p_T^2* . SELEX Internal Note H-866 (February 2006).
33. Blanco, Alejandro and Engelfried, Jurgen: *Hadroproduction of D^+ and D^- Mesons*. SELEX Internal Note H-861 (September 2006).
32. Blanco, Alejandro and Engelfried, Jurgen: *Hadroproduction of D^0 Mesons*. SELEX Internal Note H-863 (November 2006).
31. Torres, Ibrahim and Engelfried Jurgen and Cooper, P.S.: *Including a virtual track to improve the fit for single cascaded decays*. SELEX Internal Note H-864 (November 2005).
30. Cooper, P.S. and Engelfried, J.: *A Pion RICH Velocity Spectrometer for P326*. NA62/P326 Internal Note P326-05-03 (September 2005).
29. Cooper, Peter S. and Engelfried, Jurgen: *Search for Weakly Decaying Charmed Pentaquark States*. SELEX Internal Note H-896 (February 2004).
28. Engelfried, Jurgen: *Kaon RICH Gases for CKM-2*. CKM Internal Note CKM_97 (February 2004).
27. Vazquez, Eric and Engelfried, Jurgen: *Understanding vtuples with fortran*. SELEX Internal Note H-841 (October 2003).
26. Torres, Ibrahim and Engelfried, Jurgen: *Mass shifts*. SELEX Internal Note H-837 (August 2003).
25. Engelfried, Jurgen: *A fast look at the $D_{s,J}(2317)^+$ with charged pions*. SELEX Internal Note H-836 (May 2003).
24. Engelfried, Jurgen: *SAVEBK Yields from the PASS1 dmeson strip*. SELEX Internal Note H-839 (August 2003).
23. Vázquez-Jáuregui, E. and Sánchez, X. and Engelfried, J. and Morelos, A.: *Pulse height distribution in single photon counting using a photomultiplier R-760*. CKM Internal Note CKM_66 (August 2002).
22. Engelfried, Jurgen: *Phototube Window Issues in the Kaon RICH – A GEANT Simulation*. CKM Internal Note CKM_67 (August 2002).
21. Engelfried, Jurgen and Cooper, P.S. and Tschirhart, R.: *Considerations for a CKM RICH Prototype*. CKM Internal Note CKM_68 (August 2002).
20. Morelos, A. and Engelfried, J.: *Selecting event sample for studying RICH ring radius with single track events from SELEX*. CKM Internal Note CKM_41 (January 2001).
19. Engelfried, Jurgen: *π - μ Separation in the Pion RICH – A GEANT Simulation*. CKM Internal Note CKM_30 (September 2000).
18. Engelfried, Jurgen and others: *SELEX Minidst (VTUP/FTUP) Format for Pass2*. SELEX Internal Note H-824 (July 2000).
17. Engelfried, Jurgen: *Summary of SELEX RICH Efficiency Measurements*. SELEX Internal Note H-825 (September 2000).
16. Cooper P.S. and Engelfried, J. and Russ, J.: *What about Charm for SELEX_99?*. SELEX Internal Note H-814 (September 1998).

15. , CKM Collaboration: *CKM Research and Development Project Plan*. (September 1998).

2 Citations:

A: Morelos Pineda, Antonio: *SELEX*. *AIP Conf. Proc.* 531 255–258 (2000). UASLP-IF-00-01, [arXiv:hep-ex/0002045](https://arxiv.org/abs/hep-ex/0002045).

A: Engelfried, Jurgen: *Bariones, Kaones, e Instrumentación en Altas Energías*. *Revista Mexicana de Física* 46 S2 37-38 (2000). UASLP-IF-00-002.

14. Cooper P.S. and Engelfried, J. and Procario, M. and Skow, D.: *SELEX Reconstruction and Analysis Computing Plan*. SELEX Internal Note H-791 (August 1997).

13. Berg, D and others: *dfm Programmer's Guide*. Fermilab Computing Division Internal Note PN-484 (January 1997).

12. Moore, C. and others: *DART DA Monitoring*. Fermilab Computing Division Internal Note DS-243 (November 1996).

11. Engelfried, Jurgen: *Logical Address Assignment for SELEX*. SELEX Internal Note H-737 (May 1996).

10. Engelfried, J. and others: *DART Data Transport*. Fermilab Computing Division Internal Note DS-238 (November 1996).

9. Black, D. and Oleynik, G. and Engelfried, J.: *DART Interspill Scheduler (daisy)*. Fermilab Computing Division Internal Note PN-526 (May 1996).

8. Stutte, L. and Engelfried, J. and Kilmer, J.: *Ronchi Assessment Studies*. SELEX Internal Note H-721 (February 1995).

7. Engelfried, J. and Stutte, L.: *Proposal for E781 Raw Data Format*. SELEX Internal Note H-728 (April 1995).

6. Engelfried, J. and Cooper, P. and Mao, D.: *The E781 Trigger and DAQ System*. SELEX Internal Note H-643 (April 1995).

5. Engelfried, J. and Kent, S. and Oleynik, G.: *IRIX Device Driver for the Bit3 VME Crate Interconnect*. Fermilab Computing Division Internal Note PN-511 (May 1995).

4. Berg, D. and others: *DART Data Flow Manager Design*. Fermilab Computing Division Internal Note DS-225 (August 1995).

3. Steiner, V..Moinester, M.A and Ocherashvili, A. and others: *First Test of E781 Photon Calorimeter Readout*. SELEX Internal Note H-712 (1994).

2 Citations:

A: Russ, J. and Cooper, P. and Lach, J. and others: *SELEX in a Nutshell*. SELEX Internal Note H-7?? (1997).

A: Steiner, V..Moinester, M.A and Ocherashvili, A. and others: *First Test of Photon-1 Detector and Readout Using the Laster Monitoring System*. SELEX Internal Note H-758 (1995).

2. Engelfried, J. and others: *DART Readout Framework Requierements*. Fermilab Computing Division Internal Note DS-228 (October 1993).

1. Engelfried, J.: *Using Bit3 on SGI Crimson and Challenge Processors*. Fermilab Computing Division Internal Note IN-346 (November 1993).

43 technical and internal reports with 4 citations (0 external, 4 auto, and 0 thesis).

205 publications in total, with 5993 citations (3806 external, 1290 auto, and 897 thesis).



