2001 ICFA School on Instrumentation in Particle Phyics
Literature to "Particle Identification" Course

Jürgen Engelfried, March 28, 2001

1. R.C. Fernow: *Introduction to experimental particle physics.* Cambridge University Press (1986).
2. K. Kleinknecht: *Detectors for particle radiation.* Cambridge University Press, 2. english edition (1998).
3. C. Grupen: *Particle Detectors.* Cambridge University Press (1998).
4. W. Brückner et al.: *The Transition Radiation Detector in the Hyperon Beam Experiment WA89 at CERN.* Nucl. Instr. and Meth. **A378** (1996) 451.
5. D. Errede et al.: *Use of a Transition Radiation Detector in a Beam of High-Energy Hadrons.* Nucl. Instr. and Meth. **A309** (1991) 386.
6. D. Errede et al.: *Design and Performance Characteristics of the E769 Beamline Transition Radiation Detector.* IEEE Trans. Nucl. Sci. **36** (1989) 106.
7. S. Paul: *Particle Identification using Transition Radiation Detectors.* CERN-PPE-91-199.
8. A. Roberts: *A new type of Cherenkov detector for the accurate measurement of particle velocity and direction.* Nucl. Instr. and Meth. **9** (1960) 55.
9. J. Séguinot and T. Ypsilantis: *Photo-ionization and Cherenkov Ring Imaging.* Nucl. Instr. and Meth. **142** (1977) 377.
10. E. Nappi, T. Ypsilantis (Eds.): *Proceedings of the First Workshop on Ring Imaging Cherenkov Detectors.* Nucl. Instr. and Meth. **A343** (1994) no. 1.
11. T. Ekelöf (Ed.): *Proceedings of the Second International Workshop on Ring Imaging Cherenkov Detectors.* Nucl. Instr. and Meth. **A371** (1996) no. 1/2.
12. A. Breskin, R. Chechik, T. Ypsilantis (Eds.): *Proceedings of the Third International Workshop on Ring Imaging Cherenkov Detectors.* Nucl. Instr. and Meth. **A433** (1999) no. 1/2.
13. P.A. Cherenkov: *Visible radiation produced by electrons moving in a medium with velocities exceeding that of light.* Phys. Rev. **52** (1937) 378.
14. I. Frank, I. Tamm: *Coherent visible radiation of fast electrons passing through matter.* C. R. Acad. Sci. URSS **14** (1937) 109.
15. A. Bideau-Méhu et al.: *Measurement of refractive indices of neon, argon, krypton, and xenon in the* $253.7 - 140.4nm$ *wavelength range.* J. Quant. Spectrosc. Radiat. Transfer **25** (1981) 395.
16. H.-W. Siebert et al.: *The Omega-RICH.* Nucl. Instr. and Meth. **A343** (1994) 60.
17. J. Engelfried: Ph.D. Thesis, Heidelberg University (1992), unpublished.
18. W. Beusch et al.: *The RICH counter in the CERN hyperon beam experiment.* Nucl. Instr. and Meth. **A323** (1992) 373.
19. U. Müller et al.: *The recent performance of the Omega RICH detector in experiment WA89 at CERN.* Nucl. Instr. and Meth. **A371** (1996) 27.
20. U. Müller et al.: *The Omega RICH in the CERN hyperon beam experiment.* Nucl. Instr. and Meth. **A433** (1999) 71.
21. R.A. Holroyd et al.: *Measurement of the absortion length and absolute quantum efficiency of TMAE and TEA from threshold to* $120\,nm$. Nucl. Instr. and Meth. **A261** (1987) 440.

22. J. Russ et al.: *A proposal to construct SELEX.* Fermilab P781 (1987), unpublished.
J. Russ: *Fermilab Hyperon Program: Present and Future Plans.* Nucl. Phys. **A585** (1995) 39c.

23. M.P. Maia et al.: *A Phototube RICH Detector.* Nucl. Instr. and Meth. **A326** (1993) 496.

24. V.A. Dorofeev et al.: *The Search for heavy Pentaquark Exotic Baryons with hidden Strangeness in the* $p + n \to (p\Phi) + n$ *and* $p + n \to (\Lambda(1520)\, K^+) + n$ *Reactions at* $E(p) = 70\, GeV$. Physics of Atomic Nuclei **57** (1994) 227.

25. A. Kozhevnikov et al.: *SPHINX Phototube RICH Detector for Diffractive Production Experiments at Serpukhov Accelerator.* Nucl. Instr. and Meth. **A433** (1999) 164.

26. J. Engelfried et al.: *The SELEX Phototube RICH Detector.* Nucl. Instr. and Meth. **A431** (1999) 53-69. hep-ex/9811001.

27. J. Engelfried et al.: *The E781 (SELEX) RICH Detector.* Nucl. Instr. and Meth. **A409** (1998) 439.

28. J. Engelfried et al.: *The RICH Detector of the SELEX Experiment.* Nucl. Instr. and Meth. **A433** (1999) 149.

29. R. Richardson and R. Schmitt: Adv. in Cryo. Eng. **41B** (1996) 1907.

30. L. Stutte, J. Engelfried and J. Kilmer: *A Method to evaluate Mirrors for Cherenkov Counters.* Nucl. Instr. and Meth. **A369** (1996) 69.

31. U. Müller et al.: *Particle identification with the RICH detector in experiment WA89 at CERN.* Nucl. Instr. and Meth. **A343** (1994) 279.

32. I. Adam et al.: *Operation of the Cherenkov Detector DIRC of BABAR at High Luminosity.* SLAC–Pub–8783 (2001).

33. R. Coleman et al.: CKM – Charged Kaons at the Main Injector – A proposal for a Precision Measurement of the Decay $K^+ \to \pi^+ \nu\bar{\nu}$ and Other Rare K^+ Processes at Fermilab Using the Main Injector. FERMILAB-P-0905 (1998), unpublished.