

Tarea 9 Física del Electrón

Viernes, 4 de Octubre 2019

1. A hydrogen atom is an excited state, $n = 5$. (a) What are the possible values of the quantum numbers l and m_l ? (b) What are the possible values of the orbital angular momentum L ?

2. (a) Show that the function

$$\Psi = C r e^{-r/2\delta} \cos \theta$$

is a solution of the hydrogen atom, where $\delta = \hbar/mke^2$. (b) Determine the energy of the state. (c) What is the value of the angular momentum?

3. Lea y comenta la publicación *Constraint on a Varying Proton-Electron Mass Ratio 1.5 Billion Years after the Big Bang*.