

Modern Atomic Nuclear Physics Solutions Manual

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Modern Atomic and Nuclear Physics

4 Problems and Solutions in Atomic, Nuclear and Particle Physics Solution:

TheBohrradiusofthehydrogenatomandtheComptonwavelength ofelectronaregivenby $a_0 = 2 \pi \frac{h}{m_e v} = 2 \pi \frac{h}{m_e c} \frac{c}{v} = 2 \pi \frac{h}{m_e c} \frac{1}{\beta} = 2 \pi \frac{h}{m_e c} \frac{1}{\sqrt{1 - \beta^2}}$ and $\lambda_c = \frac{h}{m_e c}$ respectively. Hence $\frac{a_0}{\lambda_c} = 1 - \beta^2 = \frac{1}{1 + \alpha^2}$, where $\alpha = \frac{v}{c}$ is the fine-structure constant. Hence the answer is (a). 1004
Estimate the electric field needed to pull an electron out of an atom in

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