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Thus  $v = 1.44 \times 10^{-6} c$  and the (full) Doppler width is  $\Delta \lambda = 1.44 \times 10^{-2} \lambda$ . f30 Problems and Solutions in Atomic, Nuclear and Particle Physics 1023 Typical cross section for low-energy electron-atom scattering is  $10^{-16}, 10^{-24}, 10^{-32}, 10^{-40} \text{ cm}^2$ .

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Nuclear Energy: Problems And Solutions — UKEssays.com

4 Problems and Solutions in Atomic, Nuclear and Particle Physics Solution: The Bohr radius of the hydrogen atom and the Compton wavelength of electron are given by  $a_0 = 2 m_e a_0$  and  $\lambda_c = h/mc$  respectively. Hence  $a_0/\lambda_c = 1/2 \pi (e^2/c) = 1/137$   $\approx 0.0073$ , where  $1/137$  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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Modern Atomic and Nuclear Physics

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