

## Problems And Solutions On Atomic Nuclear And Particle Physics Major American Universities Phd Qualifying Questions And Solutions

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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  $a_0 = 2 \text{ me}^2$  and  $\lambda_c = h/mc$  respectively. Hence  $a_0/\lambda_c = 1/2 \pi^2 (e^2/c) = 1/37.2 = 22$ , where  $2/\pi$  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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