King Fahd University of Petroleum and Minerals Physics Department Phys-212: Modern Physics Spring 2002

Quiz # 2

Name:			
ID#:			

Calculate the minimum speed of an atomic electron modeled as a particle in a box with walls that are 2.0 nm apart? What is the speed if the electron is in the second excited state? Constants:

m=9.11x10⁻³¹ kg e=1.6x10⁻¹⁹ C h=6.626x10⁻³⁴ J s