

HW1 EECS 277B Fall 2013

Liu 1.1

Liu 1.6

Consider a particle in a box. What is the size the box must be for the energy levels to be larger than kT ?

Derive the density of states in a 2D world.

Sketch the probability that each energy level is occupied for a piece of copper as a function of energy at room temperature. Hint: You need to look up the Fermi energy of copper.