Phys 415 Assignment-2.

1) Write a short introduction to the Franck Hertz Experiment

2) Determine the energy jumps in Hg by the Franck-Hertz technique, (a) Use measurements taken in class. (b) Use measurements in text Figure 1-10. (average ± rms please)

Provide a table of values, origin of the data, and the mean and rms

Explain which transition (see Figure 1.24) is being observed.

2) Sketch the energy level configuration for the Na atom and explain the Na doublet.

What is the energy jump for the Franck-Hertz experiment in Na?