

130C HOMEWORK 1: Due Wednesday, Jan. 16

Electrons in an Electromagnetic Field Homework 1,2,4,6

130C HOMEWORK 2: Due Wednesday, Jan. 23

Addition of Angular Momentum 1,5,6

Fine Structure in Hydrogen 1,2

130C HOMEWORK 3: Due Wednesday, Jan. 30

Time Dependent Perturbation Theory 1

Radiation in Atoms 4, 5

Draw the energy level diagram for hydrogen up to $n = 3$. Show the allowed E1 transitions.

130C HOMEWORK 4: Due Friday, Feb. 15

Classical Maxwell Fields 1,2,3,4

130C HOMEWORK 5: Due Friday, Feb. 22

Quantum Theory of Radiation 1,2,3

130C HOMEWORK 6: Not to be handed in.

Dirac Equation 1,2,3