

Quantum Mechanics II, Problem Set 6

Due Monday, March 24

Because of the exam on March 25, I am only assigning one problem for this homework:

1. Griffiths Chapter 6, Problem 26.

Your task will be to compute the Zeeman correction for Hydrogen in the $n = 3$ state, for arbitrary values of the external magnetic field. This is a very important problem, because it requires you to know almost everything we have done this semester. Working it, and getting it right, is probably the single best way to study for the midterm!