

Quantum Mechanics Fall 2003- Homework Set 5

Three Dimensional Systems

Due 5:00pm October 27, 2003 in physics office or under my door.

1.8 Simple Wave Function Calculations

1.9 Probability Current

4.2 Part a and b only.

4.3 Don't bother normalizing Y_2^1 .

4.7 Part a. Do j_2 only.

4.8 For an example of a graphical solution, see the finite square well.

4.10 Do R_{30} only.

4.11 Part (b) only.

4.13 Expectation Values of Hydrogen

4.23