

Physics 221B
Spring 2016
Homework 3
Due Friday, February 12, 2016 at 5pm

Reading Assignment: For additional topics in central force motion, please read Notes 15, Secs 5-7 and 9; for the hydrogen atom, see the posted handwritten lecture notes; same for spin and the Pauli equation; for coupling of angular momentum and Clebsch-Gordan coefficients, see Notes 17, Secs 1-9 if you need review; for more about the CG coefs and the 3 Ylm formula, see Notes 17, Secs 10 and 11; for the transformation properties of operators under rotations, see Notes 18, Secs 1-9. Next week we'll take up the Wigner-Eckart theorem.

Please do Problems 16.3, 16.4 and 17.1.