Things You Should Know

Chapter 5: **Angular Momentum**

Be able to <u>define</u> the following terms (using words, equations, or figures):

Laplacian Operator   Legendre polynomials
Angular Momentum Operators   Spherical Harmonics

Concepts and Exercises:

1. Have a good understanding of the operators for angular momentum, their eigenvalues, eigenfunctions, and commutation relations. Know the implication of the commutation relations on measurements of angular momentum.

2. Be able to do all the exercises.