

# Phys 711: Quantum Mechanics I

## PHYSICS & ASTRONOMY

Schrodinger's equation and Hilbert spaces. Symmetry and conservation laws. Path integral quantization. Quantum theory of angular momentum. Systems of identical particles and many-electron atoms. Perturbation theory. Nonrelativistic scattering.

3 Credits

### One-way corequisites

- [Phys 709: Advanced Mechanics I](#)

### Instruction Type(s)

- Lecture: Lecture for Phys 711

### Subject Areas

- [Physics, General](#)

### Related Areas

- [Acoustics](#)
- [Atomic/Molecular Physics](#)
- [Condensed Matter and Materials Physics](#)
- [Elementary Particle Physics](#)
- [Nuclear Physics](#)
- [Optics/Optical Sciences](#)
- [Physics, Other](#)
- [Theoretical and Mathematical Physics](#)

