

## PHYS 70007

### Quantum Mechanics I

- General Hilbert Space formulation of Quantum Mechanics
- Schrödinger vs. Heisenberg picture
- Harmonic oscillator
- Coulomb problem
- Bohm-Aharonov effect
- Theory of angular momentum
- EPR correlations and Bell's inequality

#### Level:

- Graduate students: Core requirement.

**Offered:** Every fall.

**Text:** *Modern Quantum Mechanics* (Revised Edition) by J. J. Sakurai