

# Physics 262Q: Quantum Mechanics II

## Spring, 2004

### Instructor:

- Kyungseon Joo (6-4469; kjoo@phys.uconn.edu; Room P410)

### Lectures:

- Monday, Wednesday and Friday, 10:00 - 10:50 a.m., Rm. MSB 407

### Office Hours:

- Room P410. Walk-in or by appointments

### Grading:

- Weekly homeworks(30%), Midterm(30%), Final Exam (40%)

### Text:

- “Introduction to Quantum Mechanics”, David J. Griffiths (Prentice-Hall)

### Recommended books:

- “Modern Quantum Mechanics”, J.J. Sakurai (Addison Wesley)
- “Quantum Physics”, Stephen Gasiorwicz (John Wiley & Sons)
- “The Principles of Quantum Mechanics”, Paul Dirac (Oxford U. Press)

### Course Outline:

- Time-Independent Perturbation Theory
- Variational Principle
- The WKB approximation
- Time-dependent Perturbation Theory
- Adiabatic Approximation
- Scattering theory