

PHYSICS 633: Spring 2008

**QUANTUM MECHANICS III**

Class: Mon., Wed., Thu. and Fri. 10:30 – 11:18 AM; Smith 1180

Instructor: Professor Mohit Randeria  
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Course Website:

[www.physics.ohio-state.edu/~randeria/courses/physics633/physics633.htm](http://www.physics.ohio-state.edu/~randeria/courses/physics633/physics633.htm)

Prerequisites: Physics 631 and 632

Text Book: “Introduction to Quantum Mechanics” by D. J. Griffiths (2nd Ed.), (Pearson Prentice Hall, 2005).

Course Grades

- Home Work: 30%
- Mid-Term Exam I: 20%
- Mid-Term Exam II: 20%
- Final Exam: 30%

Exam Dates

- Mid Term I: Friday, April 18, 10:30 – 11:18 AM (in class)
- Mid Term II: Friday, May 9, 10:30 – 11:18 AM (in class)
- Final Exam: Friday, May 30, 6:30 – 8:30 PM (**Please note time!**);  
Room: Smith 1180

Syllabus:

- Time-independent perturbation theory
- Time-dependent perturbation theory
- Non-perturbative methods: variational & WKB approximations
- Elementary aspects of scattering theory
- Other topics will be discussed only if time permits

Office Hours: Wednesday, 11:30 - 12:30 PRB 2024 (or send me email)

Grader: Gokul Gopalakrishnan (gokul@mps.ohio-state.edu)