Physics 5002 (Spring 2016) Quantum Mechanics II

Lectures: Monday Wednesday 11:15 am – 12:30 pm, Armory Building 116

Instructor: Yong-Zhong Qian  Email: qian@physics.umn.edu

Office hour: Monday 2:30–3:30 pm, McNamara 144-1

Discussion: Tuesday 11:15 am – 12:05 pm, Vincent Hall 311; 12:20–1:10 pm, Kolthoff Hall 135

TA: Yusuf Buyukdag  Email: buyuk007@umn.edu

Office hour: Thursday 12:00–1:30 pm, Williamson Hall 130L

Course Description

The textbook is Principles of Quantum Mechanics by R. Shankar. If you need a more introductory textbook, Introduction to Quantum Mechanics by D. J. Griffiths is recommended. Solving some of the many problems in that textbook would be a great help in digesting the material.

We will cover Chapters 13–20 of the textbook. If there is time, we will finish with discussion of the path integral in Chapter 8 and parts of Chapter 21.

Homework will be assigned each Tuesday in the discussion sessions and should be turned in during sessions the following Tuesday. No late homework will be accepted. There will be 3 in-class quizzes on Wednesdays, February 17, March 30, and May 4, respectively. Scores for either the first or second quiz may be dropped. There will be no final exam. The grades will be assigned based on 40% of homework plus 20% of each quiz if no quiz is dropped or 30% of each quiz if one quiz is dropped, whichever way gives the better grades.

Solutions to discussion and homework problems and quizzes will be posted on the School of Physics and Astronomy web site for the class.