

Quantum Mechanics 661, Spring 2017

Lectures: Tuesdays and Thursdays from 1:30pm to 2:45pm in room: PHYS338.

Instructor: Martin Kruczenski, e-mail:markru@purdue.edu, Office: PHYS274.

TA: Michael Mueterthies.

Textbook: “Quantum Mechanics”, by J.J. Sakurai and course lecture notes
(online, see below)

Course Webpage: <http://web.ics.purdue.edu/~markru/>

Homework: Every other week homework is given (usually problems based on the book). The deadline is one week after the problems are given.

Exams: One midterm and one final exams. The dates are to be determined.

Final grading: Final grade is the average of the two exams. If **all** the homework problems were returned in time and were reasonably correct, the final grade will improve.

Contents of the course

The course follows Sakurai’ book, but see also lecture notes in the webpage. That means we include

Ch. 4 Symmetry in Quantum Mechanics

Ch. 5 Approximation methods

Ch. 6 Identical particles

Ch. 7 Scattering theory

Selected Topics Depending on available time they might include quantization of the electromagnetic field and/or Dirac equation.