

Syllabus Quantum Mechanics II Phy 662

Instructor: Joseph Schechter, room 315, X 5968
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Class meetings: Tues, Thurs 2:00 – 3:20 , room 104N physics building

Office hours: Tues. 4:00 – 6:00 (5:00 – 6:30 when there is a competing colloquium)

Texts to be put on reserve in the library (No particular one is required)

C. Cohen-Tannoudji, B. Diu and F. Laloe, “Quantum Mechanics”(Vols 1 and 2)

P.A.M. Dirac, “Quantum Mechanics”.

D. Griffiths, “Introduction to Quantum Mechanics”

L.D. Landau and E.M. Lifshitz, “Quantum Mechanics, non-relativistic theory”

E. Merzbacher, “Quantum Mechanics”

A. Messiah, “Quantum Mechanics” (Vols 1 and 2)

J.J. Sakurai “Modern Quantum Mechanics”

J.J. Sakurai “Advanced Quantum Mechanics”

R. Shankar “Principles of Quantum Mechanics” (second edition)

Course description:

Material not covered last term will include more on symmetries and addition of angular momentum, path integral approach, time independent and time dependent perturbation theory, other approximations, scattering theory and an introduction to relativistic quantum mechanics. The whole subject is vast so it is probably best for the student to concentrate on learning some characteristic features of these topics reasonably well.

Grading:

Participation, homework and a possible final exam will be considered.