3. Addition of angular momenta.
7. Propagators and path integrals.
8. Quantum interference phenomena: gravitational interference, Aharonov-Bohm effect, Aharonov-Casher effect.

Principal textbook: E. Merzbacher, Quantum Mechanics, 3-d edition, Wiley & sons. Additional recommended textbooks are: Landau and Lifshitz, Quantum Mechanics, Pergamon or Addison-Wesley; Sakurai, Modern Quantum Mechanics, 2-nd edition, Addison-Wesley.

12 homework assignments will be delivered each Tuesday. They are due Wednesday next week. 2 exams are planned: midterm in the first decade of March before the spring break, the final exam in May. The grades will be equally distributed between the homeworks and 2 exams. The grade A requires the score more or equal to 90%, the grade B will be given for the score between 80 and 90%, the grade C is between 60 and 80%.

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