

Tentative Schedule

Physics 454 – Intermediate Modern Physics I (Fall 2011)

Class time and location: TR: 11:54-1pm; GN 229.

Textbook: J. S. Townsend, *A Modern Approach to Quantum Mechanics*, University Science Books, 2000.

Course website: <http://learn.nmsu.edu>

Instructor: Dr. Boris Kiefer (GN 354; Email: bkiefer@nmsu.edu; Phone: 575-646-1932)

Office hours: Wednesday: 2:30-4 pm or by appointment only.

The following schedule is subject to change without notice (except for exam dates). Please prepare for class by **reading the appropriate chapters before class.**

Date			Chapter	Other
1	TH	08/18	Introduction; Getting Started	
2	T	08/23	Ch. 1; Results of the Stern-Gerlach Experiment.	Review DUE
3	TH	08/25		
4	T	08/30	Ch. 1+2: Spin, Rotation, and Angular Momentum.	HW 1 due
5	TH	09/01		
6	T	09/06	Ch. 2: Fundamental Notions about Angular Momentum	HW 2 due
7	TH	09/08		
8	T	09/13	Ch. 2+3: Angular Momentum Eigenvalue Problem	HW 3 due
9	TH	09/15		
10	T	09/20	Ch. 3: More Physics with spin-1/2 and Spin-1 Systems	HW 4 due
11	TH	09/22		
12	T	09/27		in-class Review
13	TH	09/29		Midterm 1
14	T	10/04	Ch. 3+4: How Quantum Systems Evolve in Time	HW 5 due
15	TH	10/06		
16	T	10/11	Ch. 4: Ammonia	HW 6 due
17	TH	10/13		
18	T	10/18	Ch. 4+5: Adding Angular Momenta	HW 7 due
19	TH	10/20		
20	T	10/25	Ch. 5+6: Quantum Mechanics in Space	HW 8 due
21	TH	10/27		
22	T	11/01	Ch. 6: Position and Momentum Representations	HW 9 due
23	TH	11/03		
24	T	11/08		In-class review
25	TH	11/10		Midterm 2
26	T	11/15	Ch. 6: Scattering in One-Dimensional Systems	HW 10 due
27	TH	11/17		
28	T	11/22	Thanksgiving	Thanksgiving
29	TH	11/24		Thanksgiving
30	T	11/29	Ch.7: 1-d Harmonic Oscillator	HW 11 due; Summary
31	TH	12/01		Review
	T	12/06	FINAL EXAM	10:30am-12:30pm

Final grades due: Tuesday 12/10/11.