
 Guest Lecture Sign Up

Week	Topics	Your Name
1	What is quantum mechanics?, Probabilities, & Qubits	Hal
2	Classical origins, Wave equations, & Continuum probabilities	Hal
3	Operators, Eigenvalues, & Eigenfunctions	Adrian
4	Expectation values & Uncertainty relations	Loren
5	Time-independent Schrödinger equation	Hal
6	Momentum representation & Orthogonality	Max
7	One-dimensional potentials	Chen
8	Spring Recess	Break
9	Quantized angular momentum	Liam
10	Spin	Michael
11	Three-dimensional potentials & Degeneracy	Hal
12	Hydrogen atom	Maya
13	Addition of angular momenta, Multiparticle systems & Statistics	Hal
14	(MT Advising days) Quantum statistical mechanics	Hal
15	Bell's inequalities	Zechen
16	Completion days begin 5/13	

Week	Topics	Chap.
1/26	What is quantum mechanics?, Probabilities, & Qubits	1.1-3
2/2	Classical origins, Wave equations, & Continuum probabilities	1.1-3
2/9	Operators, Eigenvalues, & Eigenfunctions	3
2/16	Expectation values & Uncertainty relations	1 & 3
2/23	Time-independent Schrödinger equation	2.1-2
3/2	Momentum representation & Orthogonality	3.2-4
3/9	One-dimensional potentials (1st take home due 3/13, 5pm)	2.3, 2.5-7, & MT
3/16	Spring Recess	
3/23	Quantized angular momentum	4.3
3/30	Spin	4.4.1-2
4/6	Three-dimensional potentials & Degeneracy	4.1 & 5.3
4/13	Hydrogen atom	4.2
4/20	Addition of angular momenta, Multiparticle systems & Statistics	4.4.3, 5.1-5.2
4/27	(Mon. Tues. Advising days) Quantum statistical mechanics	5.4
5/4	Density Matrices	Afterword
5/11	Bell's inequalities Completion days begin 5/13	Exam will focus on
5/18	2nd take home due 5/19, 5pm	topics post 3/16