	TENT	ATIVE SCHEDULE FOR PH	YSICS 401, Spring 2021				
Date	Mtg.#		Торіс	HW Due	QUIZ	Exams	
Week 1		Griffiths 3rd Edition					
1/2	5 1		Review of Early QM (Phys 371)				
1/2		1.1	Wave/Particle duality, Derivation of Schrodinger Equation				
1/2		1.2 - 1.4	The Born Interpretation. Statistical Ensemble	#0			
Week 2							
2/	4	1.5, 1.6	Momentum Operator and the Uncertainty Principle		0		
2/		2.1	Stationary States, Hamiltonian Operator		v		
2/		2.2	Infinite Square Well	#1			
Week 3		£.£		<i>T</i> 1			
2/	3 7	2.3	Harmonic Oscillator, Ladder Operators		1		
2/1		2.3	Harmonic Oscillator, More about Ladder Operators		I		
2/1		2.3, 6.4	Harmonic Oscillator Energies and Wavefunctions	#2			
	2 9	2.3, 0.4	Harmonic Oscillator Energies and Waverunctions	#2			
Week 4	- 40	0.4			0		
2/1	-	2.4	The Free Particle		2		
2/1		2.5	Delta Function Potential	"0			
2/1	9 12	2.5	The Scattering Matrix	#3			
Week 5	+					ļ	
2/2		2.6	The Finite Square Well		3	ļ ļ	
2/2		9.2	Tunneling				
2/2	3 15	3.1	Linear Algebra and Hilbert Space				
Week 6							
3/	l 16		Chapters 1, 2 (roughly)			EXAM #1	
3/	3 17	3.2	Hermitian Operators				
3/	5 18	3.2	Observables	#4			
Week 7							-
3/	3 19	3.3	Eigenfunctions of Hermitian Operators		4		
3/1	20	3.4	Generalized Statistical Interpretation				
	2 21	3.5	The Uncertainty Principle	#5			
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Week 8							
3/2	2 22	3.5	Minimum Uncertainty and the Ehrenfest Theorem		5		
3/2		3.5	Conjugate Variables and Classical Mechanics		5		
3/2		3.6	Bases in Hilbert Space	#6			
Week 9) 24	5.0	Dases III Tillbert Space	#0			
3/2	05	2.0	Dina Natatian		6		
		3.6	Dirac Notation 3D Schrodinger Equation and the Angular Equation		0		
3/3		4.1		# 7			
4/	2 27	4.1	Spherical Harmonics	#7			
Week 10					_		
4/	-	4.1	The Radial Equation		7		
4/		4.2	Hydrogen Atom Potential and the Radial Equation			ļ	
4/	30	4.2	Hydrogen Atom Energies and Wavefunctions	#8			
Week 11						ļ	
4/1		4.2	Hydrogen Atom Spectrum		8		
4/1		4.3	Angular Momentum Operator			ļ ļ	
4/1	33	4.3	Ladder Operator for Angular Momentum				
Week 12							
4/1			Chapters 3, 4 (roughly)			EXAM #2	
4/2		4.3	Angular Momentum Operator Eigenfunctions				
4/2	3 36	4.4	Spin-1/2	#9			
Week 13							
4/2	3 37	4.4	Pauli Spin Matrices		9		
4/2	3 38	4.4	Electron in a Magnetic Field				
4/3	39	4.4	Addition of Angular Momenta	#10			
Week 14			-				
5/	3 40	4.4	Clebsch-Gordan Coefficients		10		
5/		4.4	Singlet and Triplet States of Spin-1/2				
5/		4.5	Aharonov-Bohm Effect	#11			
Week 15	1					1	
5/1) 43		Review		11		
5/1							
5/1	5 44	Comprehensive	FINAL EXAM [8 AM to 10 AM]			FINAL EXAM	
		Comprehensive	= evenu le van te ve vanl				
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