

Princeton Summer School on Condensed Matter Physics Quantum Information and Computation

July 20 - 24, 2015
Monday – Friday - McDonnell Hall A02

DAY 1 Monday, July 20

8 : 30 - 9 : 30	Breakfast in Brush Gallery	
9 : 30 - 10 : 00	Opening remarks	
10 : 00 - 11 : 30	Topological Band Theory I <i>Charles Kane, Univ of Pennsylvania</i>	Lecture 1 of 3
11 : 30 - 11 : 45	Coffee break in Brush Gallery	
11 : 45 - 12 : 45	Topological Insulators, Berry Phase and Helical Dirac Fermions <i>Zahid Hasan, Princeton University</i>	
12 : 45 - 2 : 15	Lunch in Brush Gallery	
2 : 15 - 3 : 45	Spin Ice as a System with Classical Topological Order <i>Shivaji Sondhi, Princeton University</i>	
3 : 45 - 4 : 00	Coffee break in Brush Gallery	
4 : 00 - 5 : 00	Engineering Topological Band Structures for Ultracold Atoms I <i>Waseem Bakr, Princeton University</i>	1 of 3

DAY 2 Tuesday, July 21

8 : 30 - 9 : 30	Breakfast in Brush Gallery	
9 : 30 - 11 : 00	Topological Band Theory II <i>Charles Kane, Univ of Pennsylvania</i>	2 of 3
11 : 00 - 11 : 15	Coffee break in Brush Gallery	
11 : 00 - 12 : 45	Topological Order in Floquet Systems <i>Shivaji Sondhi, Princeton University</i>	
12 : 45 - 2 : 15	Lunch in Brush Gallery	
2 : 15 - 3 : 15	"Experimental Realization of Majorana Fermions" <i>Vidya Madhavan</i>	2 of 3
		1 of 1

DAY 3 Wednesday, July 22 - morning

8 : 30 - 9 : 30	Breakfast in Brush Gallery	
9 : 30 - 11 : 00	Topological Band Theory III <i>Charles Kane, Univ of Pennsylvania</i>	
11 : 30 - 11 : 45	Coffee break in Brush Gallery	

DAY 3 Wednesday, July 22 - afternoon

8 : 30 - 9 : 30	Breakfast in Brush Gallery	
9 : 30 - 10 : 45	Topical Bankd Theory III <i>Roman Lutchyn, Station Q, Microsoft Research</i>	Lecture 3 of 3
10 : 45 - 11 : 00	Coffee break in Brush Gallery	
11 : 00 - 12 : 15	"Topics in Quantum Entropy and Entanglement" <i>Elliott Lieb, Princeton University</i>	1 of 3
12 : 15 - 1 : 30	Lunch in Brush Gallery	
1 : 30 - 2 : 45	"AdS/CFT, Entanglement Entropy, and Black Hole Entropy" <i>Juan Maldacena, Institute for Advanced Study</i>	2 of 3
2 : 45 - 3 : 00	Coffee break in Brush Gallery	
3 : 00 - 4 : 15	"Topics in Quantum Entropy and Entanglement" <i>Elliott Lieb, Princeton University</i>	2 of 3

DAY 4 Thursday, July 23, 2015

9:00 - 10 : 00	Breakfast in Brush Gallery	
	"AdS/CFT, Entanglement Entropy, and Black Hole Entropy" <i>Juan Maldacena, Institute for Advanced Study</i>	
	Coffee break in Brush Gallery	
9 : 30 - 10 : 45		3 of 3
10 : 45 - 11 : 00		
11 : 00 - 12 : 15	"Topics in Quantum Entropy and Entanglement" <i>Elliott Lieb, Princeton University</i>	3 of 3
12 : 15 - 1 : 30	Lunch in Brush Gallery	

DAY 5 Friday, July 24, 2015

9:00 - 10 : 00	Breakfast in Brush Gallery	
----------------	-----------------------------------	--