## Condensed Matter Theory Center 2017 FALL SYMPOSIUM



## November 15-17 2205 John S. Toll Physics Building

November 15 (Wednesday)	
	Topological
9:00 AM	Maissam Barkeshli "Single-shot modular transformations: transversal logic gates and measuring fractional
	statistics"
9:50 AM	Yahya Alavirad "Edge state super current in the quantum hall regime"
10:40 AM	Junhyun Lee "Chiral anomaly without Landau levels"
	MBL and Entanglement
11:30 AM	Tom ladecola "Symmetry-protected macroscopic degeneracy in Floquet systems"
12:20-1:45 Lunch Break	
1:50 PM	Xiao Li "Observation of mobility edges in a one-dimensional bichromatic incommensurate potential"
2:40 PM	Brian Swingle "Quantum dynamics with tensor networks"
3:30 PM	Dong-Ling Deng "Measuring Quantum Entanglement Entropy through Restricted Boltzmann Machines"
Novembe	r 16 (Thursday)
	Magnetism
9:00 AM	Mike Schecter "Thermal Ising Transitions in 2D Heisenberg Magnets"
9:50 AM	Lance Boyer "A Model for Metastable Magnetism in the Hidden-Order Phase of URu2Si2"
	Lattices
10:40 AM	Danny Bulmash "Fractons and Gapped Boundaries"
11:30 AM	Shenglong Xu "Interaction effects from the parity of N in SU(N) symmetric fermion lattice systems"
12:20-1:50 Lunch Break	
November 17 (Friday)	
Novembe	Majorana
9:00 AM	Jay Sau "Teleportation as a signature for Majorana bound states in the weak Coulomb blockade limit"
9:50 AM	Ching-Kai Chiu "Conductance interference in a superconducting Coulomb blockaded Majorana ring"
10:40 AM	Will Cole "1D spin-orbit coupled bosons: spin-momentum locking and the quantum critical point"
11:30 AM	Chunxiao Liu "Andreev bound states versus Majorana bound states in quantum dot-nanowire-
11.507((V)	superconductor hybrid structures: trivial versus topological zero-bias conductance peaks"
12:20-1:45 Lunch Break	
1:50 PM	Yi-Ting Hsu "Topological superconductivity in monolayer transition metal dichalcogenides"
	Spin Qubits
2:40 PM	Robert Throckmorton "Fast pulse sequences for dynamically corrected gates in singlet-triplet qubits"
3:30 PM	Yang Song "Spin-orbit coupling induced two-electron relaxation in silicon donor pairs"
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