Schedule of Presentations QIC710/CS768/CO681/PH767/AM871 (Fall 2013) **LAST MODIFIED Dec. 17, Noon**

November 28 (Thursday):

2:30-3:00pm	Jason Boisselle	Additivity of channels using Guassian states
3:00-3:30pm	Mehdi Karimi	Using the mathematics of quantum information to prove classical results
3:30-4:00pm	Abbas Mehrabian	Quantum query complexity of the connectivity of a graph

November 29 (Friday):

10:00-10:30am	Anirudh Krishna	Quantum accuracy threshold for concatenated distance-3 codes
10:30-11:00am	Zimeng Wang	Oracle interrogation
11:00-11:30am	Lydia Vermeyden	Envariance as a proof for Born's rule

December 12 (Thursday):

9:30-10:00am	Jean-Philippe MacLean	Entanglement witnesses
10:00-10:30am	Olivia di Matteo	Mutually unbiased bases
10:30-10:45am	BREAK	
10:45-11:15am	John Schanck	Solving the Pell equation
11:15-11:45am	Chunhao Wang	Applications of quantum walks
11:45-1:00pm	LUNCH BREAK	
1:00-1:30pm	Marie Barnhill	Quantum error models
1:30-2:00pm	Rahul Deshpande	Quantum simulation
2:00-2:30pm	Zhihan Gao	Quantum algorithms for matching and network flows
2:30-2:45pm	BREAK	
2:45-3:15pm	Ian Kennedy	Quantum annealing
3:15-3:45pm	Annie Jiyun Park	Entanglement fidelity

December 16 (Monday):

9:00-9:30am	Eric Crawford	Discrete quantum walk algorithms with quadratic speedup over classical counterparts
9:30-10:00am	Jaakko Kaupinmaki	Continuous-time quantum algorithms
10:00-10:30am	Winnie Lam	Proof systems for the shortest vector problem
10:30-10:45am	BREAK	
10:45-11:15am	Dmitry Serbin	Randomized benchmarking
11:15-11:45am	Joshua Young	Quantum walk search algorithm

December 17 (Tuesday):

9:00-9:30am	Nayeli Azucena Rodriguez Briones	Heat-bath algorithmic cooling
9:30-10:00am	Sean Hunt	Quantum Turing machines
10:00-10:30am	Dmitri Iouchtchenko	Effects of shared entanglement on communication
10:30-10:45am	BREAK	
10:45-11:15am	Shihan Sajeed	Choosing optimal parameters for the BB84 protocol
11:15-11:45am	Anirudh Sankar	Merkle puzzles in a quantum world

December 18 (Wednesday): **PLEASE NOTE LATER START TIME**

9:30-10:00am	Jérémy Béjanin	Stabilizer codes, and the 5-qubit code
10:00-10:30am	Kevin Liu	An introduction to quantum games
10:30-10:45am	BREAK	
10:45-11:15am	Lindsay Orr	Complexity of the k-local Hamiltonian problem for physically relevant systems
11:15-11:45am	John Rinehart	Quantum entropy and channel capacity

December 19 (Thursday):

1:00-1:30pm	Arnaud Carignan-Dugas	Retrieving information out of Hawking radiation
1:30-2:00pm	Poompong Chaiwongkhot	Quantum Shannon information
2:00-2:30pm	Linda Farczadi	Quantum oracle interrogation
2:30-2:45pm	BREAK	
2:45-3:15pm	Dieter Fishbein	A quantum algorithm for solvable groups
3:15-3:45pm	Piers Lillystone	Measurement based quantum computation: teleportation quantum computation
3:45-4:15pm	Alex Parent	QEC with the surface code

December 20 (Friday):

1:00-1:30pm	Nicolas Gonzales	Threshold accuracy for quantum computation
1:30-2:00pm	Robie Hennigar	From black boxes to black holes: recovering quantum information from black holes
2:00-2:30pm	Asif Khan	Quantum interactive proof systems
2:30-2:45pm	BREAK	
2:45-3:15pm	Sumit Sijher	The toric code
3:15-3:45pm	Sean Walker	Measurement based quantum computation
3:45-4:15pm	Darryl Hoving	Hamiltonian simulation for quantum field theories