

Schedule of Presentations QIC710/CS667/CO681/PH767/AM871 (Fall 2012) LAST MODIFIED Dec. 18, 11:00am

November 28 (Wednesday) in DC 2314:

1:10-1:40pm	Corey Rae McRae	Surface codes: introduction via stabilizers
1:40-2:10pm	Yuval Sanders	Surface codes: faults and gates
2:10-2:40pm	Danielle Drainville	Unconditional security of quantum key distribution over long distances
2:40-2:55pm	SHORT BREAK	
2:55-3:25pm	Alexander Valtchev	Quantum algorithms for element distinctness
3:25-3:55pm	Katja Ried	Dynamical maps and initial correlations

December 6 (Thursday) in DC 1304:

2:10-2:40pm	Nabiha Asghar	Quantum algorithms for matchings and vertex-colorings in graphs
2:40-3:10pm	Joel Klassen	A bosonic universal entangling gate for dimension greater than two
3:10-3:40pm	Yongchao (Edward) Tang	Quantum algorithm for quantum field theory
3:40-3:55pm	SHORT BREAK	
3:55-4:25pm	Ala Shayeghi	Exponential separation of quantum & classical communication complexity
4:25-4:55pm	Shima Bab Hadiashair	Exponential separation of quantum & classical communication complexity

December 7 (Friday) in DC 1304:

12:10-12:40pm	Shitikanth Kashyap	Superlinear advantage for exact quantum algorithms
12:40-1:10pm	Marie Sarah Lacharité	Quantum algorithms for quadratic residues
1:10-1:25pm	SHORT BREAK	
1:25-1:55pm	Sarah Kaiser	Device independent quantum cryptography
1:55-2:25pm	Srinivasan Aruachalam	Universal blind quantum computation

December 13 (Thursday) in QNC 1201 (new IQC building):

1:40-2:10pm	Tyler Jackson	Merkle's problem in a quantum setting
2:10-2:40pm	Stéphane Labruyere	Distinguishing 2-qubit states by local measurements & classical messages
2:40-3:20pm	Minyang (Young) Han	Magic state distillation

December 14 (Friday) in DC 1304:

1:10-1:40pm	Devanshu Pandey	Quantum evaluation of NAND formulas
1:40-2:10pm	Keith Ng	Improving zero-error classical communication with entanglement
2:10-2:40pm	Paulina Corona Ugalde	Quantum algorithms for quantum field theory
2:40-2:55pm	SHORT BREAK	
2:55-3:25pm	Denis-Alexandre Trottier	Quantum computing without entanglement?

December 17 (Monday) in DC 1304:

1:10-1:40pm	Vincent Russo	Quantum algorithm for group non-membership
1:40-2:10pm	William Stacey	Merkle puzzles in a post-quantum world
2:10-2:40pm	Muhammet Ali Yurtalan	Oracle interrogation
2:40-2:55pm	SHORT BREAK	
2:55-3:25pm	Jeremy Flannery	Quantum tomography
3:25-3:55pm	Li Liu	Quantum strategies for nonlocal games
3:55-4:25pm	Vibhu Gupta	Quantum computing without entanglement?

December 18 (Tuesday) in DC 1304:

1:10-1:40pm	Maryam Sadat Mirkamali	An introduction to measurement based quantum computation
1:40-2:10pm	Carl Toft	Quantum oracle interrogation
2:10-2:40pm	Georg Osang	The dihedral hidden subgroup problem
2:40-2:55pm	SHORT BREAK	
2:55-3:25pm	Roddy Kok	Classical to quantum code constructions
3:25-3:55pm	Megan Agnew	Entanglement witnesses

December 20 (Thursday) in DC 1304:

2:10-2:40pm	Denis Collette	Quantum coin flipping
2:40-3:10pm	Lyle Waldman	Quantum graph algorithms
3:10-3:40pm	Yin (Peter) Zhang	Oracle interrogation: getting all information for almost half the price
3:40-3:55pm	SHORT BREAK	
3:55-4:25pm	Thom Bihdanowicz	Black holes as quantum information mirrors
4:25-4:55pm	Aida Ahmadzadegan	Entanglement concentration
4:55-5:25pm	Elena Anisimova	Decoy state protocol for quantum key distribution
5:25-5:55pm	Feyruz Kitapli	Continuous-time query quantum algorithms