

From Quantum Matter to Quantum Information, June 24 - 27, 2013

Room 202 MacLeod Building, 2356 Main Mall, Vancouver, BC

Registration, poster session and breaks will be in room 220 of MacLeod Building

Time	Monday, June 24	Time	Tuesday, June 25	Time	Wednesday, June 26	Time	Thursday, June 27
9:00 – 9:15	Introductory remarks by workshop organizers	9:00 – 10:00	Andrea Morello (University of New South Wales, Sydney, Australia): <i>Single-atom spin qubits in silicon</i>	9:00 - 10:00	Joerg Wrachtrup (MPI Stuttgart/ Stuttgart University, Germany): <i>The quantum way of sensing</i>	9:00 – 10:00	Alexandre Blais (Sherbrooke, Canada): <i>Waveguides QED with an ensemble of qubits</i>
9:20 - 10:20	Mike Thewalt (Simon Fraser University, Canada): <i>What's so special about highly enriched 28Si?</i>	10:00 – 10:30	Florian Dolde (MPI, Stuttgart, Germany): <i>Room-temperature entanglement between single defect spins in diamond</i>	10:00- 10:30	Andrew Golter (University of Oregon, USA): <i>Applications of dark states in diamond NV centers</i>	10:00 – 10:30	Martin Leib (TU Munich, Germany): <i>Strongly interacting Many Body Physics with Circuit Quantum Electrodynamics Networks</i>
10:20 - 10:50	<i>Coffee break</i>	10:30 – 11:00	<i>Coffee Break</i>	10:30 – 11:00	<i>Coffee break</i>	10:30 – 11:00-	<i>Coffee break</i>
10:50 – 11:50	Mohammad Amin (D-wave Inc, Canada): <i>Decoherence induced deformation of the ground state in AQC</i>	11:00 – 12:00	Jens Eisert (Freie University of Berlin, Germany): <i>Dynamical quantum simulation with cold atoms</i>	11:00 – 12:00	Vahid Sandoghdar (MPL Erlangen-Nuremberg, Germany): <i>On the efficient interaction of single photons and single quantum emitters</i>	11:00 – 12:00	Christian Gross (MPQ, Munich, Germany): <i>Quantum Simulation of spin Hamiltonians</i>
12:00 – 12:30	Rogério de Sousa (University of Victoria, Canada): <i>Temperature dependent spin-diffusion as a mechanism of flux noise and decoherence in SQUIDs and qubits</i>	12:00 – 12:30	Hermann Kampermann (University of Dusseldorf, Germany) : <i>Quantum Correlations: much ado about nothing?</i>	12:00 – 12:30	Gopalakrishnan Balasubramaniam (MPI Biophysical Chemistry, Goettingen, Germany): <i>Harnessing the spin dynamics of NV for precision magnetic sensing</i>	12:00 – 12:30	Pejman Jouzdani (University of Central Florida, USA): <i>Fidelity of the surface code in the presence of a bosonic bath</i>
12:30 – 13:00	David Herrera Marti (National University of Singapore, Singapore): <i>Tradeoff between Leakage and Dephasing Errors in the Fluxonium Qubit</i>	12:30 – 13:00	Michael Zwerger (University of Innsbruck, Austria): <i>Universal and optimal error thresholds for measurement-based entanglement purification</i>	12:30 – 13:00	Osama Moussa (IQC Waterloo, Canada): <i>Double quantum coherence in NV-centers in diamond at small fields</i>	12:30 – 13:00	Toby Jacobson (Sandia National Lab, USA): <i>Distinguishing adiabaticity from relaxation in a silicon double quan-tum dot charge qubit</i>
13:00 – 15:00	<i>Catered lunch break</i>	13:00 – 15:00	<i>Catered lunch break</i>	13:00 – 14:00	<i>Catered lunch break</i>	13:00 – 13:10	Concluding remarks by workshop organizers
15:00 - 16:00	Yu-Ao Chen (USTC Shanghai, China): <i>Linear optical computation with multi-photon entanglement</i>	15:00 – 16:00	Jay Gambetta (IBM Research, New York, USA): <i>Progress in superconducting qubits</i>	14:00 - 18:30	D-wave Lab tour Bus will depart at 14:00 from AMPEL building, 2355 East Mall		
16:00 – 16:30	Dan Browne (University College, London, UK): <i>Quantum Computation with Classical States</i>						
16:30 – 17:00	<i>Coffee Break</i>	16:00 - 17:00	Mark Johnson (D-wave Inc, Canada): <i>Overview of a Quantum Annealling Processor</i>				
17:00 – 19:00	Poster Session – Room 220	17:00 – 22:00	Walk in Stanley Park followed by a dinner at the Teahouse restaurant. Dinner will start at 19:00.				