

Quantum Information and Foundations of Quantum Mechanics, July 2 - 5, 2013
Room 182 (Victoria Hall) Irving K. Barber Learning Centre, 1961 East Mall, Vancouver, BC

Time	Tuesday, July 2	Time	Wednesday, July 3	Time	Thursday, July 4	Time	Friday, July 5
							New location: Hennings 202, 6224 Agricultural Road
8:50 – 9:00	Opening Remarks by workshop organizers	9:00 – 10:00	Joseph Emerson (IQC Waterloo): <i>Negative quansi-probability and contextuality are equivalent resources for quantum computation</i>	9:00 – 10:00	Terry Rudolph (Imperial College, UK): <i>The WAY theorem and quantum information</i>	9:00 – 10:00	Roger Colbeck (ETH Zurich): <i>Is a system’s wave function in one-to-one correspondence with its elements of reality?</i>
9:00 – 10:00	Rob Spekkens (PI, Waterloo): <i>On causal explanations of quantum correlations</i>						
10:05 - 10:35	Peter Love (Haverford College, USA): <i>Clifford Cellular Automata and Hidden Variable Theories</i>	10:05 – 10:35	Robert Griffiths (Carnegie Mellon): <i>Hilbert Space Quantum Mechanics: Local and Non-contextual</i>	10:05 – 10:35	Leon Loveridge (UBC) : <i>Quantum measurements constrained by symmetry</i>	10 :05 - 10 :35	Nadish De Silva (Oxford) : <i>Extensions from classical to quantum</i>
10:35 – 10:55	Coffee Break	10:35- 11:00	Coffee Break	10:35 – 10:55	Coffee break	10 :35 - 11 :00	Coffee Break
10:55 – 11:25	Alexander Wilce (Susquehanna, USA): <i>Conjugates, Correlations and the Jordan structure of finite-dimensional Quantum Theory</i>	11:00 – 12:00	Moredecai Waegell (Worcester Poly, USA): <i>New proofs of Quantum Contextuality</i>	10:55 – 11:25	Jeff Salvail (SFU, Canada) : <i>Quantum state determination via weak values : Photon Polarization and Spin Qubit Experiments</i>	11 :00 – 11 :30	Jonathan Silman (Universite Bruxelles, Belgium): <i>Using Full Bell Statistics to optimize Device-Independent Randomness Generation</i>
11:25 – 12:00	Amr Sabry (Indiana, USA): <i>Discrete Quantum Theories</i>			11:30- 12:00	Takayuki Miyadera (Kyoto University): <i>Qualitative Noise-Disturbance Relation of Quantum Measurement</i>	11:30 – 12:30	Simone Severini (University College, UK): <i>(Non)-contextuality of physical theories as an axiom</i>
12:00 – 15:00	Lunch break	12:00 – 14:30	Lunch break	12:00 – 15:00	Lunch break	12:30 – 13:00	Lunch will be served
15:00 – 16:00	Chris Heunen (Oxford, UK): <i>Quantum systems allow active state spaces</i>	14:30 – 15:30	Samson Abramsky (Oxford): <i>The Logical and Geometry of Non-locality and Contextuality</i>	15:00 – 16:00	Stephen Bartlett (Sydney, Australia): <i>Quantum computational matter</i>		
16:05- 16:35	David Ellerman (UV Riverside, USA): <i>Partition logic, logical entropy, and the objective indefiniteness interpretation of quantum mechanics</i>	15:35 – 16:05	Johannes Kofler (University of Vienna) : <i>Photonic Bell violation closing the fair-sampling loophole.</i>				
16:35 – 16:55	Coffee Break	16:05 – 16:30	Coffee Break	16:05 – 16:15	Coffee Break		
16:55 – 17:25	Cecilia Flori (Perimeter Institute, Canada): <i>Topos Analogues of the KMS state</i>	16:30 – 17:30	Shane Mansfield, Raymond Lal and Rui Soares Barbosa (Oxford) on: <i>*The cohomology of non-locality and contextuality (20 min)</i> <i>*A sheaf-theoretic approach to contextuality in cluster states (20 min)</i> <i>*Structural reason for monogamy (20 min)</i>	16:15 – 17:15	Pawel Horodecki (University of Gdansk, Poland): <i>Relative entropy of contextuality</i>		
17:30 – 18:00	Gilad Gour (U of Calgary, Canada): <i>Universal uncertainty relations</i>	18:00 - 22:00	Poster Session	19:00	Conference Dinner – Seasons at the Park, Queen Elizabeth Park		