

**QCS 2019 Programme**

	<b>Wed 10<sup>th</sup> July</b>	<b>Thu 11<sup>th</sup> July</b>	<b>Fri 12<sup>th</sup> July</b>	<b>Sa 13<sup>th</sup> July</b>	<b>Sun 14<sup>th</sup> July</b>
<b>09:30</b> - <b>11:00</b>	<b>Tutorial</b> <b>Rob Spekkens</b> (Perimeter Institute)	<b>Tutorial</b> <b>Paolo Perinotti</b> (University of Pavia)	<b>Tutorial</b> <b>Bob Coecke &amp; Stefano Gogioso</b> (University of Oxford)	<b>Tutorial</b> <b>Fabio Costa</b> (University of Queensland)	<b>Time for discussions</b>
<b>11:00</b> - <b>11:30</b>	Coffee break	Coffee break	Coffee break	Coffee break	
<b>11:30</b> - <b>12:15</b>	<b>Elie Wolfe</b> <i>Quantum Inflation Technique</i>	<b>Ognyan Oreshkov</b> (invited) <i>Cyclic quantum causal models</i>	<b>Aleks Kissinger</b> (invited) <i>Teaching a new dog old tricks: causal inference by string diagram surgery</i>	<b>Christina Giarmatzi</b> <i>Witnessing quantum memory in non-Markovian processes</i>	
<b>12:15</b> - <b>13:00</b>	<b>Jonathan Barrett</b> <i>Quantum causal models</i>	<b>Alessandro Bisio</b> <i>Theoretical framework for Higher- Order Quantum Theory</i>	<b>Matty Hoban</b> (invited) <i>Bipartite Post-Quantum Steering and the Instrumental Scenario</i>	<b>Jacques Pienaar</b> <i>Is the arrow of causality reversible?</i>	
<b>13:00</b> - <b>15:00</b>	Lunch break	Lunch break	Lunch break	Lunch break	
<b>15:00</b> - <b>15:45</b>	<b>Andrew Garner</b> <i>Device-independent information processing with spatiotemporal degrees of freedom</i>	<b>Robin Lorenz</b> <i>The dot-formalism – causally faithful graphical representations of unitaries</i>	<b>Denis Rosset</b> <i>Constructive representation theory and applications to causal structures</i>	<b>Ding Jia</b> <i>Diagrams, Processes, QFTs, and Quantum Gravity</i>	
<b>15:45</b> - <b>16:00</b>	Coffee break	Coffee break	Coffee break	Coffee break	
<b>16:00</b> - <b>16:30</b>	<b>Ravi Kunjwal</b> <i>Bell Quantified: The Resource Theory of Nonclassicality of Common-Cause Boxes</i>	<b>Christodoulou Marios</b> <i>Superposition of geometries in the lab and the possibility to probe Planck time</i>	<b>Nitica Sakharwade</b> <i>Toy model for quantum causality using colouring rules</i>	<b>Hler Kristjansson</b> <i>Quantum Shannon theory with superpositions of trajectories</i>	
<b>16:30</b> - <b>17:00</b>	<b>David Schmid</b> <i>Causal-Inferential Theories I</i>	<b>Alessandro Tosini</b> <i>Information and disturbance in a physical theory</i>	<b>Nicola Pinzani</b> <i>Categorical Semantics for Time Travel</i>	<b>Julian Wechs</b> <i>Existence of noncausal processes on time-delocalized systems</i>	
<b>17:00</b> - <b>17:30</b>	<b>John Selby</b> <i>Causal-Inferential Theories II</i>	<b>Marco Erba</b> <i>Classical theories with entanglement</i>	<b>Some Sankar Bhattacharya</b> <i>Indefinite causal order enables perfect quantum communication with zero capacity channel</i>		