

Quantum Networks 2017

	Tuesday 1st August		Wednesday 2nd August		Thursday 3rd August		Friday 4th August
		9:30	Fabio Costa (invited)	10:00	Ognyan Oreshkov (invited)	9:30	Ana Belén Sainz (invited)
		10:20	Schmid <i>et al</i> (6)	10:50	Taddei <i>et al</i> (11)	10:20	Nery <i>et al</i> (14)
		10:50	<i>Coffee</i>	11:20	<i>Coffee</i>	10:50	<i>Coffee</i>
		11:20	Robin Evans (invited)	11:50	Philip Walther (invited)	11:20	Lee & Hoban (15)
11:00	<i>Registration open from 11am</i>	12:10	Navascués & Wolfe (7)	12:40	<i>Lunch</i>	11:50	Rosset <i>et al</i> (16)
13:50	<i>Welcome at 13:50</i>	12:40	<i>Lunch</i>	14:00	Jacques Pienaar (invited)	12:20	Abbott <i>et al</i> (17)
14:00	Stefano Pironio (invited)	14:00	Stephanie Wehner (invited)	14:50	Silva <i>et al</i> (12)	12:50	<i>Lunch</i>
14:50	Elie Wolfe <i>et al</i> (1)	14:50	Vilasini <i>et al</i> (8)	15:20	Castro-Ruiz <i>et al</i> (13)	14:00	Lucien Hardy (invited)
15:20	Pozas-Kerstjens <i>et al</i> (2)	15:20	<i>Coffee</i>	15:50	Poster Session	14:50	Coecke (18)
15:50	<i>Coffee</i>	15:50	John-Mark Allen (invited short talk)	18:00	<i>End</i>	15:20	<i>Coffee</i>
16:20	Ringbauer <i>et al</i> (3)	16:20	Chaves <i>et al</i> (9)			15:50	Jia (19)
16:50	Miklin <i>et al</i> (4)	16:50	Iten <i>et al</i> (10)			16:20	Guérin & Brukner (20)
17:20	Saunders <i>et al</i> (5)	17:20	<i>End</i>			16:50	Araújo <i>et al</i> (21)
17:50	<i>End</i>	18:00	Conference Dinner at Cherwell Boathouse			17:20	<i>End of Workshop</i>

Quantum Networks 2017

Invited speakers

Stefano Pironio (ULB) - *The simplest device-independent scenario with a classical/quantum separation*

Fabio Costa (University of Queensland) - *A no-go theorem for superpositions of causal order*

Robin Evans (University of Oxford) - *Causal models with hidden variables*

Stephanie Wehner (TU Delft) - *TBC*

John-Mark Allen (University of Oxford) - *Natively Quantum Causal Models*

Ognyan Oreshkov (University of Oxford) - *Proposal for a violation of a causal inequality in quantum mechanics*

Philip Walther (University of Vienna) - *Quantum photonics for superimposing causal orders*

Jacques Pienaar (IIP Natal) - *Motivation for a QBist approach to quantum causal models*

Ana Belén Sainz (Perimeter Institute) - *Einstein-Podolsky-Rosen Steering in Quantum Theory and Beyond*

Lucien Hardy (Perimeter Institute) - *TBC*

Quantum Networks 2017

	<i>Authors</i>	<i>Title</i>
1	Elie Wolfe, Miguel Navascués, Denis Rosset, Antonio Acín and Alejandro Pozas Kerstjens	What sorts of correlations can be generated when parties share a quantum network? Insights from the Inflation technique.
2	Alejandro Pozas-Kerstjens, Miguel Navascués, Daniel Cavalcanti, Rafael Chaves, Rafael Rabelo and Antonio Acín	Extended moment matrices for characterizing nonconvex sets
3	Martin Ringbauer, Christina Giarmatzi, Rafael Chaves, Fabio Costa, Andrew G. White and Alessandro Fedrizzi	Experimental test of causal models for spatial and temporal quantum correlations
4	Nikolai Miklin, Alastair Abbott, Rafael Chaves, Cyril Branciard and Costantino Budroni	The Entropic Approach to Causal Correlations
5	Dylan Saunders, Adam Bennet, Cyril Branciard and Geoff Pryde	Experimental demonstration of non-bilocal quantum correlations
6	David Schmid, Rob Spekkens and Katja Ried	Quantum causal models as a natural framework for understanding not completely positive maps in open-system dynamics
7	Miguel Navascués and Elie Wolfe	The inflation technique solves completely the classical inference problem
8	Vilasini, Christopher Portmann and Lídia Del Rio	Composable Security in Relativistic Quantum Cryptography
9	Rafael Chaves, Gonzalo Carvacho, Iris Agresti, Valerio di Giulio, Sandro Giacomini and Fabio Sciarrino	Quantum Violation of the Instrumental Test
10	Raban Iten, Lídia Del Rio and Renato Renner	Experimentally robust no-go theorems

Quantum Networks 2017

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11	Márcio Mendes Taddei, Ranieri Nery, Rafael Chaves, Jacques Pienaar and Leandro Aolita	Quantum instrumental causal structures and causal non-separability
12	Ralph Silva, Yelena Guryanova, Anthony Short, Paul Skrzypczyk, Nicolas Brunner and Sandu Popescu	Connecting processes with indefinite causal order and multi-time states
13	Esteban Castro Ruiz, Flaminia Giacomini and Časlav Brukner	Dynamics of quantum causal structures
14	Ranieri V. Nery, Marcio M. Taddei, Rafael Chaves, Stephen P. Walborn and Leandro Aolita	Semi-quantum instrumental processes and a stronger form of quantum steering
15	Ciarán Lee and Matty Hoban	Towards device-independent information processing on general quantum networks
16	Denis Rosset, Pei-Sheng Lin and Yeong-Cherng Liang	Viability of semidefinite program solutions in quantum information
17	Alastair A. Abbott, Julian Wechs, Fabio Costa and Cyril Branciard	Genuinely multipartite noncausality
18	Bob Coecke	The time-reverse of any causal theory is eternal noise.
19	Ding Jia	Quantum Causality as a Regularization Mechanism
20	Philippe Allard Guérin and Časlav Brukner	A relational approach to quantum causality
21	Mateus Araújo, Ämin Baumeler and Philippe Allard Guérin	Quantum computation with indefinite causal structures

Quantum Networks 2017

Poster session - Thursday 3rd August (15:50-18:00)

Gonzalo Carvacho - *Experimental violation of local causality in a quantum network*

Anna Jenčová - *Non-classical features in general probabilistic theories*

Giuseppe Nisticó - *The Meaning Of Contextuality In Quantum Theory And Its Implications*

Nuriya Nurgalieva and Lídia Del Rio - *Quantum reference frames for experiments where observers are measured*

Francisco Pipa - *Violation of the weak equivalence principle due to gravity-matter entanglement*

Marc Olivier Renou - *Triangle network: Partial characterization of the N-Local set*

Debashis Saha and Marcin Pawłowski - *Structure of genuine tripartite quantum non-locality*

Nitica Sakharwade and Lucien Hardy - *Bi-directional Teleportation and Dense coding in a butterfly network*

Roberto Salazar - *Games and Monogamy in the Relativistic Causal Correlations*

Stanisław Sołtan - *Fermi problem in terms of causal relations*

Kirill Tikhonov, Alisa Manukhova, Tatiana Golubeva and Yuri Golubev - *Generation of quantum cluster states based on SPOPO light with quantum memory cell*

Quantum Networks 2017

Tian Zhang and Vlatko Vedral - *Pseudo-Density Matrix Formulation of Quantum Field Theory*