

Analytical and Combinatorial Methods in Quantum Information Theory II

Monday 24 – Friday 28 July 2023

The programme is subject to change. All times are British Summer Time (BST).

MONDAY 24 JULY 2023	
<i>Chair: Milán Mosonyi, Budapest University of Technology and Economics</i>	
09.00 – 09.25	Registration and Refreshments
09.25 – 09.30	Welcome and Housekeeping
09.30 – 10.30	Marius Junge , University of Illinois Urbana-Champaign <i>Collective Noise from finite to infinite dimension</i>
10.30 – 11.00	Refreshments
11.00 – 12.00	Carlos Palazuelos , Universidad Complutense de Madrid <i>On some recent results about quantum XOR games</i>
12.00 – 13.00	Early Career session - Roy Araiza, University of Illinois Urbana-Champaign - Alexandros Chatzinikolaou, National Kapodistrian University of Athens - Marco Fanizza, Universitat Autònoma de Barcelona
13.00 – 14.00	Lunch
14.00 – 16.00	Research session
16.00 – 16.30	Refreshments
16.30 – 17.30	Jason Crann , Carleton University <i>Values of quantum non-local games</i>
17.30 – 18.30	Welcome Reception, hosted at ICMS

TUESDAY 25 JULY 2023	
<i>Chair: Michael Brannan, University of Waterloo</i>	
09.30 – 10.30	Matthias Christandl , University of Copenhagen <i>Tensors: rank, entropy and entanglement</i>
10.30 – 11.00	Refreshments
11.00 – 12.00	Miguel Navascués , Austrian Academy of Sciences <i>Self-testing of quantum state ensembles and extreme POVMs in the prepare-and-measure scenario</i>
12.00 – 13.00	Early Career session - Priyanga Ganesan, University of California San Diego - Gage Hofer, University of Delaware - Andreas Klingler, University of Innsbruck - Yinan Li, Wuhan University
13.00 – 14.00	Lunch
14.00 – 15.30	Research session
15.30 – 16.00	Refreshments
16.00 – 17.00	Tim Netzer , Universität Innsbruck <i>Abstract Cone Systems: A Categorical Approach To Operator Systems</i>

WEDNESDAY 26 JULY 2023	
Chair: <i>Debbie Leung, University of Waterloo</i>	
09.30 – 10.30	Vern Paulsen , University of Waterloo <i>Synchronous Values of Games</i>
10.30 – 11.00	Refreshments
11.00 – 12.00	William Slofstra , University of Waterloo <i>Positivity is undecidable in product algebras</i>
12.00 – 13.00	Problem session
13.00 – 14.00	Lunch and free afternoon

THURSDAY 27 JULY 2023	
Chair: <i>Lyudmila Turowska, Chalmers University of Technology / University of Gothenburg</i>	
09.00 – 10.00	Anna Vershynina , University of Houston <i>Measuring quantum coherence</i>
10.00 – 10.30	Refreshments
10.30 – 11.30	Michael Wolf , Technical University of Munich <i>Quantum no-go theorems based on algebraic-transcendental separations</i>
11.30 – 13.00	Early Career session <ul style="list-style-type: none"> - Chiara Meroni, ICERM - Eric Roon, The University of Arizona - Samuel Scalet, University of Cambridge - Yuming Zhao, University of Waterloo - Jeroen Zuiddam, University of Amsterdam
13.00 – 14.00	Lunch
14.00 – 15.30	Research session
15.30 – 16.00	Refreshments
16.00 – 17.00	Milán Mosonyi , Budapest University of Technology and Economics <i>Barycentric Rényi divergences</i>
19.00	Workshop Dinner, hosted at Blonde Restaurant <i>75 St. Leonard's Street, Edinburgh EH8 7QR</i>

FRIDAY 28 JULY 2023	
Chair: <i>Vern Paulsen, University of Waterloo</i>	
09.30 – 10.30	Michael Brannan , University of Waterloo <i>Quantum no-signalling bicorrelations and quantum automorphisms of graphs</i>
10.30 – 11.00	Refreshments
11.00 – 12.00	Debbie Leung , University of Waterloo <i>Quantum data compression and rate-distortion theory</i>
12.00 – 13.00	Michele Dall'Arno , Toyohashi University of Technology <i>Quantum guesswork: a combinatorial instance of quantum hypothesis testing</i>
13.00 – 14.00	Lunch and End of Workshop