

Workshop on Temporal Quantum Correlations and Steering

Siegen, 04/10/2016-06/10/2016



Tuesday, 04.10.2016

9:29	Opening
9:30	J. Kofler: Probability polytopes of spatially and temporally separated measurements
10:15	G. Vitagliano: Quantifying clumsiness of QND measurements in Leggett-Garg tests
10:45	Coffee
11:15	M. Reid: Einstein-Podolsky-Rosen steering, Schrödinger cats and macroscopic reality
12:00	R. Uola: Steering and joint measurability
12:30	Lunch Break
14:00	G. Adesso: Gaussian steering
14:45	A. Asadian: Macroscopic tests via Ramsey correlation measurements in hybrid systems

15:15	Y. Xiang: Monogamy constraint of multipartite Gaussian steering
15:45	Coffee
16:15	J. Thompson: Simplifying input-output processes with quantum mechanics
17:00	J. Hoffmann: Temporal dimension witnesses
17:30	Break
19:30	Conference Dinner , Upper Castle

Wednesday, 05.10.2016

9:30	C. M. Li: Quantifying Quantum Processes
10:15	C. Spee: Maximally entangled sets and entanglement manipulation
10:45	Coffee
11:15	S. Brierley: Searching for Bell inequalities with the help of video games
12:00	S.-L. Chen: Device-independent quantification of steerability, measurement incompatibility, and self-testing
12:30	K. Luoma: Adaptive strategy for joint measurements
13:00	Lunch Break
Around 15:15	Departure to the Krombacher Brewery (return around 20:00)

Thursday, 06.10.2016

9:30	M. Piani: Steering from a quantum channel perspective
10:15	F. Lever: Channel steering
10:45	Coffee
11:15	M. Gu: Replicating the benefits of closed timelike curves without breaking causality
12:00	C. Budroni: Causal structures and marginal problems
12:30	Lunch Break
14:00	A. Tavakoli: Entanglement versus single quantum systems as resources for quantum communication complexity
14:45	A. Costa: Hierarchy of quantum resources and chronology of deaths and births
15:15	H.-Y. Ku: The application of temporal steering in open quantum system
15:45	Coffee
16:15	M. Kleinmann: Theory-independent conclusions from bipartite quantum

	correlations
17:00	The end ...

Speakers & Participants:

- Gerardo Adesso (Nottingham)
- Stephen Brierley (Cambridge)
- Mile Gu (Singapore)
- Matthias Kleinmann (Bilbao)
- Johannes Kofler (Garching)
- Che Ming Li (Tainan)
- Marco Piani (Glasgow)
- Margeret Reid (Melbourne)
- Armin Tavakoli (Geneva)
- Jayne Thompson (Singapore)
- Ali Asadian (Siegen)
- Costantino Budroni (Siegen)
- Shin-Liang Chen (Siegen)
- Ana Costa (Siegen)
- Jannik Hoffmann (Siegen)
- Huan-Yu Ku (Tainan)
- Fabiano Lever (Trento)
- Kimmo Luoma (Dresden)
- Cornelia Spee (Siegen)
- Roope Uola (Siegen)
- Giuseppe Vitagliano (Bilbao)
- Yu Xiang (Beijing / Nottingham)
- Sanah Altenburg (Siegen)
- Felix Bischof (Düsseldorf)
- Dagmar Bruß (Düsseldorf)
- Felix Huber (Siegen)
- Christian Keller (Düsseldorf)
- Tristan Kraft (Siegen)
- Nikolai Miklin (Siegen)
- Daniel Miller (Düsseldorf)
- Tatjana Mihaescu (Düsseldorf)
- Marcel Seelbach (Siegen)
- Jochen Szangolies (Düsseldorf)
- Marius Paraschiv (Siegen)

- Christina Ritz (Siegen)
- Sabine Wölk (Siegen)
- Nikolai Wyderka (Siegen)

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