

Program
Quantum Computation, Quantum Information, and the Exact Sciences
LMU Munich

Time	Friday January 30, 2015	Saturday January 31, 2015	Time
08:30	Registration		08:30
08:45			08:45
09:00	Opening: Michael Cuffaro & Stephan Hartmann	Keynote: Chair: Johannes Kofler	09:00
09:15	Keynote: Chair: Michael Cuffaro	Hans Briegel	09:15
09:30	Chris Timpson	<i>Towards quantum artificial intelligence</i>	09:30
09:45	<i>Quantum information: Ontological and</i>		09:45
10:00	<i>conceptual aspects</i>		10:00
10:15			10:15
10:30		Coffee break	10:30
10:45	Coffee break		10:45
11:00	Gemma de las Cuevas Chair: Michael Cuffaro	Hector Frytes & Giuseppe Sergioli Chair: Carina Prunkl	11:00
11:15	<i>Fundamental limitations of</i>	<i>Non-separability in the representation of fuzzy</i>	11:15
11:30	<i>purification problems</i>	<i>structures in quantum computation</i>	11:30
11:45	Lunch break	Sam Fletcher	11:45
12:00		<i>The physical basis of computation and</i>	12:00
12:15		<i>computational complexity</i>	12:15
12:30		Lunch break	12:30
12:45			12:45
13:00			13:00
13:15			13:15
13:30	Alexei Grinbaum Chair: Patricia Palacios	Ronnie Hermens Chair: Wolfgang Pietsch	13:30
13:45	<i>If the observer is defined informationally,</i>	<i>The relevance of Gleason's theorem for Bayesian</i>	13:45
14:00	<i>what is quantum theory?</i>	<i>interpretations of quantum probabilities</i>	14:00
14:15	Vasil Penchev	Gerd Niestegge	14:15
14:30	<i>Quantum information as the information of</i>	<i>Non-classical conditional probability, quantum</i>	14:30
14:45	<i>infinite series</i>	<i>measurement, and the no-cloning theorem</i>	14:45
15:00	Coffee break	Coffee break	15:00
15:15			15:15
15:30	Adrien Feix & Caslav Brukner Chair: Lucas Clemente		15:30
15:45	<i>Superposition of causal ordering between</i>		15:45
16:00	<i>parties as a communication complexity resource</i>	Kohtaro Tadaki Chair: Sam Fletcher	16:00
16:15	Lucas Dunlap	<i>A refinement of quantum mechanics by</i>	16:15
16:30	<i>Would the existence of CTCs allow for</i>	<i>algorithmic randomness</i>	16:30
16:45	<i>nonlocal signaling?</i>	Break	16:45
17:00	Break	Keynote: Chair: Sam Fletcher	17:00
17:15	Keynote: Chair: Johannes Kofler	Leah Henderson	17:15
17:30	Rüdiger Schack	<i>Quantum information theory and the quantum state</i>	17:30
17:45	<i>QBism and the Born rule</i>		17:45
18:00			18:00
18:15			18:15
18:30			18:30
18:45		Informal drinks	18:45
19:00			19:00
19:15	Conference dinner		19:15
19:30	"Georgenhof" (Friedrichstr. 1)	(open end)	19:30
19:45			19:45
20:00	(open end)		20:00