

**Quantum Mechanics and Quantum Information:
Physical, Philosophical and Logical
Perspectives 23 and 24 of July 2015**

Brussels Free University, Belgium

- Maria Luisa Dalla Chiara, Roberto Giuntini, Roberto Lepporini & Giuseppe Sergioli: *Quantum Turing Machines, Quantum Computational Logic and Cognitive Processes*
- Christian de Ronde: *Quantum Superpositions Do Exist! But Quantum Reality \neq Actuality*
- Hector Freytes and Giuseppe Sergioli: *Non-separability in Quantum Computation: representing continuous t-norm*
- Giuseppe Sergioli and Roberto Giuntini: *Quantum Pattern Recognition*
- Matias Graffigna: *The possibility of a new metaphysics for QM from the phenomenological perspective: Meinong and Husserl*
- Karin Verelst: *Structure as Cause*
- Bob Coecke: *From quantum foundations to natural language meaning via string diagrams*
- Benjamin Eva: *Another Paraconsistent Topos Theoretic Quantum Logic*
- Albert Solé: *A defence of the two-space reading of Bohmian mechanics*
- Roberto Giuntini & Antonio Ledda: *From Scharp to Unsharp Quantum Logic: A New Look at the Effects of a Hilbert Space (1)*
- Roberto Giuntini & Antonio Ledda: *From Scharp to Unsharp Quantum Logic: A New Look at the Effects of a Hilbert Space (2)*
- Tomas Veloz: *On new interpretational aspects on the quantum-inspired approach to cognition*

Scientific Committee: Diederik Aerts
Maria Luisa Dalla Chiara
Roberto Giuntini
Décio Krause
Newton da Costa

Organizing Committee: Christian de Ronde (Chair)
Hector Freytes
Giuseppe Sergioli
Antonio Ledda



PROGRAM

	JULY 23	JULY 24
9.45 – 10.00	<i>Opening words</i>	
10.00 – 10.50	<i>Sergioli & Giuntini</i>	<i>Veloz</i>
10.50 – 11.20	Coffee Break	Coffee Break
11.20 – 12.10	<i>Albert Solé</i>	<i>Giuntini & Ledda (1)</i>
12.10 – 13.00	<i>Graffigna</i>	<i>Giuntini & Ledda (2)</i>
13.00 – 15.30	Lunch	Lunch
15.30 – 16.20	<i>Eva</i>	<i>Freytes & Sergioli</i>
16.20 – 17.10	<i>de Ronde</i>	<i>Verelst</i>
17.10 – 17.40	Coffee Break	Coffee Break
17.40 – 18.30	<i>Coecke</i>	<i>Dalla Chiara, Giuntini, Sergioli and Lepporini</i>