

PROGRAM IQSA WORKSHOP 4-7 July 2017

Tuesday: 4-7-2017

8h45-9h00 Registration

9h00-9h05 Welcome and Opening Words by the Chair of the Organizing Committee and the President of IQSA

9h05-10h30 Morning Session (Chair: Sonja Smets)

9h05-10h05: Invited Speaker Session

Guido Bacciagaluppi (Utrecht)

A Proof of Specker's Principle

10h05-10h30: Paul Busch, Leon Loveridge and Takayuki Miyadera.

Relativity of Quantum States and Observables

10h30-11h00 Coffee

11h00-12h30 Contributed Talks Session (Chair: Paul Busch)

11h00-11h25: Gijs Leegwater. When GHZ meet Wigner's Friend – trouble for relativistic unitary, single-outcome quantum mechanics

11h30-11h55: Roman Fric, Peter Eias and Martin Papco. On stochastic independence in quantum/fuzzy probability

12h00-12h25: Bert Lindenhovius. Projections and Posets of Commutative C^* -subalgebras

12h30-13h30 Lunch Break

13h30-14h30 Contributed Talks Session (Chair: Mirko Navara)

13h30-13h55: Jarosław Pykacz. The many-valued logic of quantum mechanics

14h00-14h25: Thomas Vetterlein. Some notes around the topic of an algebraic reconstruction of Hilbert space

14h30-15h00 Break

15h00-17h55 QPL Sessions which includes part of the IQSA program

Last Slot IQSA presentation: Bob Coecke, Stefano Gogioso and Aleks Kissinger. Von Neumann measurements from causality and the Projection Postulate

18h00-19h00 QPL Poster session and Welcome drinks reception @ LUX (18:00 - late. Reception finishes at 19:00, cash at bar afterwards)

Wednesday: 5-7-2017

9h00-10h00 Invited Speaker at the joint IQSA joint with QPL (Chair: Aleks Kissinger)

Miriam Backens (Bristol): TBA

10h00-10h30 Break

10h30-11h00 Coffee

11h00-12h30 Contributed Talks Session (Chair: Jarosław Pykacz)

11h00-11h25: Lev Levitin. Information in von Neumann and POVM measurements

11h30-11h55: Hanna Podseǳkowska and Rafał Wieczorek. Applications of Segal's entropy for Holevo type bounds in general quantum system

12h00-12h25: Maria Luisa Dalla Chiara, Roberto Giuntini, Roberto Leporini and Giuseppe Sergioli. Entanglement, Holism and Contextuality in the Logics of Quantum Computation

12h30-14h00 Lunch Break

14h00-15h30 Contributed Talks Session (Chair: Soroush Rafiee Rad)

14h00-14h25: Giuseppe Sergioli. An Operational approach to Quantum Circuits

14h30-14h55: Xin Sun. Logic and Quantum Cryptography for Access Control

15h00-15h25: Gejza Jenča. Effect algebras as presheaves on finite Boolean algebras

15h30-16h00 Coffee

16h00-17h00 Contributed Talks Session (Chair: Thomas Vetterlein)

16h00-16h25: Jan Paseka, Ivan Chajda and Helmut Länger. The groupoid-based logic for lattice effect algebras

16h30-16h55: Soroush Rafiee Rad, Amir Hossein Sharafi and Sonja Smets. Logic of Lattice Effect Algebras

19h00: Conference dinner @ de Vereeniging (19:00 - 23:00)

Thursday: 6-7-2017

09h30-10h30 Invited Speaker Session (Chair: Sonja Smets)

Hans Maassen (Radboud/Amsterdam)
Aspects of the no-cloning theorem

10h30-11h00 Coffee

11h00-12h30 Contributed Talks Session (Chair: Giuseppe Sergioli)

11h00-11h25: Joanna Luc and Tomasz Placek. Why generalised probability does not explain quantum correlations?
11h30-11h55: Dušana Štiberová. State as a linearization
12h00-12h25: Alexander Wilce. Categories of probabilistic models, and vice versa

12h30-14h00 Lunch Break

14h00-15h30 Contributed Talks Session (Chair: Jan Paseka)

14h00-14h25: John Harding. Dynamics in the decompositions approach to quantum mechanics
14h30-14h55: Mirko Navara. Pastings of orthostructures
15h00-15h25: Michal Hroch. On the Horn-Tarski measure-extension condition for field-valued measures

15h30-16h00 Coffee

16h00-17h00: IQSA Association Meeting for Members and Friends

Friday: 7-7-2017

9h30-10h30 Contributed Talks Session (Chair: John Harding)

9h30-9h55: Alexandru Baltag and Sonja Smets. The Dynamic Logic of Tests

10h00-10h25: Hector Freytes: Kripke style semantic for the logic of two valued states on orthomodular lattices

10h30-11h00 Coffee Break

11h00-11h55 Contributed Talks Session 10 (Chair: Sonja Smets)

11h00-11h25: John Selby, Carlo Maria Scandolo and Bob Coecke. Reconstructing quantum theory from diagrammatic postulates

11h30-11h55 Kang Feng Ng and Quanlong Wang. ZX-calculus for qudit graph state

11h55-12h00 Closing Words