**MONDAY July 17th**

09.00-10.00: Sam Lomonaco Jr (UMBC, Maryland, US).
QPL TUTORIAL: A Rosetta Stone for Quantum Computing and Information Science: Cats, Kets, Cloisters, measurement, and quanglement.
**10.00-10.15: break**
10.15-11.15: Sam Lomonaco Jr (UMBC, Maryland, US).
QPL TUTORIAL: Introduction to Quantum Algorithms
**11.15-11.30: break**
11.30-12.30: Sam Lomonaco Jr (UMBC, Maryland, US).
QPL TUTORIAL: Topological Quantum Computing and the Jones Polynomial.

14.00-15.30: Samson Abramsky (University of Oxford, UK).
QPL TUTORIAL: Introduction to logics as type theories for quantum processes.
**15.30-16.00: break**
16.00-17.30: Simon Gay (University of Glasgow, UK).
QPL TUTORIAL: Computer Science Semantics

**TUESDAY July 18th**

09.00-09.45: Bob Coecke (University of Oxford, UK).
QPL accepted paper: Axiomatic description of mixed states from Selinger's CPM construction.
09.45-10.30: B. Coecke & E. O. Paquette (Oxford & University of Montreal).
QPL accepted paper: POVMs and Naimark's theorem without sums.
**10.30-11.00: break**
11.00-11.45: P. Jorrand & S. Perdrix (CNRS Grenoble, France).
QPL accepted paper: A Quantum Calculus.
11.45-12.30: A.S. Green & T. Altenkirch (University of Nottingham, UK).
QPL accepted paper: From reversible to irreversible computations.

14.00-14.45: P. Selinger & B. Valiron (Dalhousie & Ottawa, Canada).
QPL accepted paper: On a fully abstract model for a quantum linear functional language.
14.45-15.30: Yannick Delbecque (McGill University, Montreal, Canada).
QPL accepted paper: A Quantum Game Semantics for the Measurement Calculus.
**15.30-16.00: break**
16.00-16.45: M. Lampis, K.G. Ginis & N.S. Papaspyrou (National Technical University of Athens, Greece).
QPL accepted paper: Quantum Data and Control Made Easier.
16.45-17.30: J.K. Vizzotto, A.C. da Rocha Costa & A. Sabry (Rio Grande, Pelotas and Indiana).
QPL accepted paper: Quantum Arrows in Haskell.

**WEDNESDAY July 19th**

09.00-09.45: A. Di Pierro & H. Wiklicky (Pisa & Imperial College).
QPL accepted paper: Semantic Abstraction and Quantum Computation.
09.45-10.30: Peter Selinger (Dalhousie University, Canada).
QPL accepted paper: Idempotents in dagger categories.
**10.30-11.00: break**
11.00-12.30: **QPL discussion**

14.00-15.00: Keye Martin (Naval Research Lab, Washington, US).
SURVEY: Domain theory.
15.00-15.45: Peter Hines (University of York, UK).
Coherent Halting Schemes for Quantum Iteration.
**15.45-16.15: break**
16.15-17.45: **Poster presentations**

**THURSDAY July 20th**

09.00-10.00: Richard Jozsa (University of Bristol).
PLENARY: Simulating certain classes of quantum computations.
10.00-10.30: O. Dahlsten, R. Oliveira & M. B. Plenio (Imperial College, London, UK).
Efficient Generation of Generic Entanglement.
**10.30-11.00: break**
11.00-11.30: Y. Feng & M. Ying (Tsinghua University, Beijing, China).
Quantum Loop Programs.
11.30-12.30: Dan Browne (University of Oxford, UK).
SURVEY: Measurement Based QC.

14.00-15.00: Rick Blute (University of Ottawa, Canada).
SURVEY: Linear Logic.
15.00-15.45: M. Van den Nest, A. Miyake, W. Duer & H.-J. Briegel (Innsbruck, Austria).
Universal resources for measurement--based quantum computation.
**15.45-16.15: break**
16.15-17.00: E. Kashefi & V. Danos (Oxford & Paris 7).
Flow in the one-way model.
17.00-18.00: Samson Abramsky (University of Oxford, UK).
SURVEY: Temperley-Lieb Algebra.

**FRIDAY July 21th**

09.00-10.00: Basil Hiley (Birkbeck College, London, UK).
PLENARY: tba
10.00-10.30: Vladimir Kisil (University of Leeds, UK).
p-Mechanics: Quantum and Classical Mechanics in One Bottle.
**10.30-11.00: break**
11.00-11.30: Ross Duncan (University of Oxford, UK).
An Abstract Approach to Entanglement.
11.30-12.30: T. Franz, H. Vogts, A. Gattner & R. F. Werner (Braunschweig TU, Germany).
SURVEY: Quantum Cellular Automata.

14.00-15.00: Sam Lomonaco Jr (UMBC, Maryland, US).
SURVEY: A Quantum Computing Knot Theoretic Mystery.
15.00-15.45: Bob Coecke (University of Oxford, UK).
In the beginning God created tensor, ... as a picture.
**15.45-16.15: break**
16.15-17.00: Matthew Leifer (Perimeter Institute, Canada).
Quantum State Causal Networks.
17.00-18.00: Peter Selinger (Dalhousie University, Canada).
SURVEY: Graphical Calculi.

**SATURDAY July 22th**

09.00-10.00: Jim Lambek (McGill University, Canada).
PLENARY. Compact Monoidal categories applied to English and to the Standard Model.
10.00-10.30: Yong Zhang (Chinese Academy of Sciences, Beijing).
Teleportation, Braid Group and Temperley-Lieb Algebra.
**10.30-11.00: break**
11.00-11.30: Philip Goyal (University of Cambridge, UK).
An information-theoretic approach to Quantum Theory.
11.30-12.30: Klaas Landsman (Nijmegen, Holland).
SURVEY: Between classical and quantum.

14.00-15.00: Phil Scott (University of Ottawa, Canada).
SURVEY: Geometry of Interaction.

15.00-15.45: Yasser Omar (ISEG, Lisbon, Portugal).
Indistinguishable particles in quantum mechanics: an introduction.
**15.45-16.15: break**
16.15-17.00: Jonathan Barrett (Perimeter Institute, Canada).
Information processing in generalized probabilistic theories.
17.00-17.45: Greg Meredith (Biosimilarity LLC, Virginia CU, US).
Knots as processes.

**SUNDAY July 22th**

09.30-10.15: Marcelo Fiore (University of Cambridge, UK).
The bicategory of generalised species.
10.15-10.45: Emmanuel Galatoulas (Athens).
Towards bicategorical quantum mechanics.
**10.45-11.00: break**
11.00-11.30: Robin Houston (University of Manchester, UK).
Finite Products are Biproducts in a Compact Closed Category.
11.30-12.30: Isar Stubbe (University of Coimbra, Portugal).
SURVEY: Abstract projective geometry & Piron's representation theorem.

14.00-14.45: Frank Valckenborgh (Macquarie University, Sydney, Australia).
Group representations and systems of imprimitivity.
14.45-15.30: Rob Spekkens (University of Cambridge, UK).
An epistemic constraint as an axiom for quantum theory.
**15.30-15.45: break**
15.45-16.30: Jiannis Pachos (University of Cambridge, UK).
Quantum computation with abelian anyons on the honeycomb lattice.
16.30-17.15: Jens Eisert (Imperial College, London, UK).
The classical complexity of finding ground states of many-body systems: if I search for ground states, how much paper do I need?

**POSTERS**

* Ross Duncan (University of Oxford, UK). Quantum Processes and Proof Normalisation.
* Ellie D'Hondt (Free University of Brussels, Belgium). Quantum Knowledge.
* Hynek Mlnarik (Univerity of Brno, Czech Republic).
* Mehrnoosh Sadrzadeh (University of Southampton, UK). Compact Closure in Persian Grammar.
* Mehrnoosh Sadrzadeh (University of Southampton, UK). Quantum Mud: Classical Epistemic Puzzles within a Quantum Structure.
* Anya Tafliovich (University of Toronto, Canada). Quantum Predicative Programming.
* H. Vogts, A. Gattner, T. Franz & R.F. Werner (Braunschweig TU, Germany). Reversible Quantum Cellular Automata.
* Yaroslav Volovich (Vaxjo University, Sweden).