

QNET Workshop 2006: Programme

Monday 4th December

- 8.30** Registration; tea/coffee
9.00 Bob Coecke, University of Oxford
Unifying classical and quantum probability
9.40 Ellie D'Hondt, Vrije Universiteit Brussel
Distributed leader election
10.20 Dan Browne, University of Oxford
Quantum circuit depth
11.00 Break; tea/coffee
11.30 **Invited lecture**
Paulo Mateus, Security and Quantum Information Group, Lisbon
Exogenous quantum logic and model-checking
12.45 Lunch
13.50 Peter Ryan, University of Newcastle
Spooky voting at a distance
14.30 Elham Kashefi, University of Oxford
Parallelizing quantum circuits
15.10 Break; tea/coffee
15.40 Nick Papanikolaou, University of Warwick
Towards a model-checker for quantum stabilizer protocols
16.20 Pablo Arrighi, University of Grenoble / IMAG
Linear-algebraic lambda-calculus: higher order, encodings, confluence
17.00 End
Several pubs and bars can be found in Ashton Lane and Byres Road
19.00 Dinner at Gong Restaurant, 17 Vinicombe Street

Tuesday 5th December

- 8.30** Tea/coffee
9.00 Samson Abramsky, University of Oxford
Axiomatics of (no-)cloning and (no-)deleting
9.40 Bill Edwards, University of Oxford
Adding causal structure to categorical QM
10.20 Dmitri Akatov, University of Oxford
Categorical modelling of quantum protocols
11.00 Break; tea/coffee
11.30 **Invited lecture**
Stephen Barnett, Department of Physics, University of Strathclyde
The physics of quantum information processing
12.45 Lunch
13.45 Business meeting
14.00 Peter Hines, University of York
Temperley-Lieb algebras as two-way automata
14.40 Hynek Mlnarik, Masaryk University
Semantics of the LanQ programming language
15.20 Thorsten Altenkirch, University of Nottingham
The quantum IO monad in Haskell
16.00 End; tea/coffee