

## **QUISCO meeting, 10 December 2013, Tuesday**

**11.30 – 13.05** Morning session, room 222:

1. **11.30-12.00** (30 min) - **Ross Duncan**, University of Strathclyde, "What is categorical quantum mechanics?"
2. **12.00-12.20** (20 min) **Petros Wallden**, Heriot Watt University, "Quantum Digital Signatures without quantum memory"
3. **12.20-12.50** (30 min) **Oliver Thomson Brown**, Heriot Watt University, "Quantum Collision Detection Engine: From Cars to Claws to Walks"
4. **12.50-13.05** (15 min) **Bernd Braunecker**, University of St. Andrews, "Entanglement detection in carbon nanotube Cooper pair splitters"

**LUNCH** and informal discussions, room 233: **13.05-14.00**

**14.00-15.35** Afternoon session, room 222:

5. **14.00-14.20** (20 min) **Simon Gay**, Glasgow University, "Automated Equivalence Checking for Verification of Quantum Protocols"
6. **14.20 -14.40** (20 min) **Andru Gheorghiu**, Edinburgh University, "Quantum Computing Virtual Machine"
7. **14.40 – 15.00** (20 min) **Patric Fulop**, Edinburgh University, "Secure multiparty quantum computation"
8. **15.00 -15.15** (15 min) New research topics at Quantum Optics and Cold Atoms group, **Manuel Valiente**, Heriot Watt University.
9. **15.15 – 15.35** (20 min) **Callum Croal**, University of St. Andrews, "Entanglement from discord by local loss"

**CHRISTMAS** coffee break, room 233: **15.35 – 16.15**

Evening session, room 222: 16.15 onwards

1. **16.15 – 16.45** (30 min) **Swapan Mandal**, Department of Physics, Visva-Bharati in India, "Harmonic oscillators and squeezed states".
2. 16.45 onwards – tba

Informal discussions