School on Counting Statistics, 7 & 8 January 2006 Lancaster University, UK

Saturday 7th January

8:00-8:45 Breakfast (Langdales Restaurant)

Conference Centre

MR1 Morning Session

9:00-10:00	Tobias Brandes Quantum optics and photon counting I
10:00-10:30	Coffee
10:30-11:30	Yaroslav Blanter Noise in electronic systems I
11:30-12:00	Break
12:00-13:00	Wolfgang Belzig Mesoscopic counting statistics I

13:00-14:30 Lunch (Foyer)

MR1 Afternoon Session

14:30-15:30	Tobias Brandes Quantum optics and photon counting II
15:30-16:00	Coffee
16:00-17:00	Eugene Sukhorukov Stochastic Path Integral formulation I

- 17:30-19:00 Discussion
- 19:30-21:00 Dinner (Langdales Restaurant)

Sunday 8th January

8:00-8:45 Breakfast (Langdales Restaurant)

Conference Centre

MR1 Morning Session

9:00-10:00	Yaroslav Blanter Noise in electronic systems II
10:00-10:30	Coffee
10:30-11:30	Wolfgang Belzig Mesoscopic counting statistics II
11:30-11:45	Break
11:45-12:45	Eugene Sukhorukov Stochastic Path Integral formulation II

12:45-14:00 Lunch (Foyer)

Sunday 8th January

Conference Centre

MR1 Noise and Counting Statistics I (Chair: Wolfgang Belzig)

14:00-14:30	Renaud Leturcq Counting statistics of single electron transport in a quantum dot
14:30-15:00	Frank Hekking Finite frequency quantum noise in an interacting mesoscopic conductor
15:00-15:20	Leonardo DiCarlo Shot Noise of a Quantum Point Contact in a Magnetic Field
15:20-15:40	Alessandro Braggio Full Counting Statistics & Non-Markovian Effect in Strongly Interacting Systems
15:40-16:00	Tomas Novotny Charge transport statistics of quantum shuttles

16:00-16:30 Coffee (Foyer)

MR1 Noise and Counting Statistics II (Chair: Elisabetta Paladino)

16:30-17:00	Tobias Brandes Coherence and noise in transport through coupled quantum dots
17:00-17:30	Guiseppe Falci Coherent population transfer in superconducting nanodevices
17:30-18:00	Christoph Bruder Current cross-correlations in mesoscopic devices
18:00-18:20	Alberto Morpurgo Non-local Andreev reflection: experimental observation and relevance for entangler devices

18:30-19:30 **Posters up (MR1)**

Barker House Farm

Monday 9th January Breakfast (Langdales Restaurant) 8:00-8:45 **Conference Centre** MR2 Quantum Transport I (Chair: John Chalker) 9:00-9:30 Yaroslav Tserkovnyak Momentum-resolved tunneling into a short cleaved-edge wire 9:30-10:00 Konstantin Arutyunov Quantum size phenomena in ultra-narrow 1D nanowires 10:00-10:30 Jurgen Smet Polarization dependence and local probe studies of the microwave induced zero resistance in the two dimensional electron system 10:30-11:00 Coffee (Foyer) MR2 Hybrid Structures I (Chair: Gerrit Bauer) 11:00-11:30 Arne Brataas Magnetoelectronic Circuits: Torque, Pumping, and Noise 11:30-12:00 Chris Marrows Spin polarisation at finite temperature Veronique Dupuis 12:00-12:30 Single magnetic clusters embedded in matrix 12:30-12:50 Malek Zareyan Shot noise in magnetoelectronic structures 13:00-14:30 Lunch (Foyer) MR2 Quantum Dynamics (Chair: Christoph Bruder)

14:30-15:00	Miles Blencowe Cooper-Pair Molasses: Cooling a Nanomechanical Resonator with Quantum Back-Action
15:00-15:20	Andrea Donarini Electromechanical properties of a biphenyl transistor
15:20-15:40	Denzil Rodrigues The SET Resonator: Quantum Master Equations
15:40-16:00	Alexey Bykov Effect of DC and AC excitations on the magnetoresistance in high-density high mobility GaAs quantum well systems

16:00-16:30 **Coffee (Foyer)**

MR2 Graphene and Graphite I (Chair: Pablo Esquinazi)

16:30-17:00	Tsuneya Ando Exotic transport properties of two-dimensional graphite
17:00-17:30	Francisco Guinea Interaction effects, disorder, and transport in graphene layers
17:30-18:00	Andre Geim QED in a Pencil Trace
18:00-18:30	Ben Simons Electronic Structure of the Superconducting Graphite Intercalates

- 18:30-20:00 Poster session I (MR1)
- 20:00-21:30 Dinner (Langdales Restaurant)

Tuesday 10th January

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8:00-8:45	Breakfast (Langdales Restaurant)
Conference C	entre
MR2 Hybrid St	tructures II (Chair: Alberto Morpurgo)
9:00-9:30	Hervé Courtois Local spectroscopy of superconducting hybrid nanostructures
9:30-9:50	Regis Melin Non local transport at FS and NS double interfaces
9:50-10:10	Igor Sosnin Superconducting proximity effect in conical ferromagnets
10:10-10:30	David Sanchez Magnetic-field asymmetry in nonlinear mesoscopic transport
10:30-11:00	Coffee (Foyer)
MR2 Quantum	Transport II (Chair: Jurgen Smet)
11:00-11:30	Ramon Aguado SU(4) Kondo effect in Carbon Nanotubes
11:30-12:00	Yuli Nazarov Gq corrections in circuit theory of Quantum Transport
12:00-12:30	Per Delsing Current measurement by counting of single electrons
12:30-12:50	Jozsef Cserti Rashba Billiards
13:00-14:30	Lunch (Foyer)
MR2 Mesosco	pic Quantum Optics (Chair: Tobias Brandes)
14:30-15:00	Peter Michler Photon correlation measurements on semiconductor nanostructures
15:00-15:30	Carlos Tejedor Quantum optics with quantum dots in microcavities: photon pairs emission
15:30-16:00	Alexei Vagov Ultra-fast dynamics of optically excited quantum dots
16:00-16:30	Coffee (Foyer)
MR2 Graphite	and Graphene II (Chair: Tsuneya Ando)
16:30-17:00	Philip Kim Unusual Transport Properties in Carbon Based Low Dimensional Materials: Nanotubes and Graphene
17:00-17:30	Edward McCann Landau level degeneracy and quantum Hall effect in a graphite bilayer
17:30-18:00	Pablo Esquinazi Magnetic order in carbon structures
18:00-18:20	Luis Brey Edge States and Quantum Hall Effect in Graphene
18:30-20:00	Poster session II (MR1)
20:00-21:30	Dinner (INFOLAB café)

Wednesday 11th January

8:00-8:45 Breakfast (Langdales Restaurant)

Conference Centre

MR2 Quantum Hall Effect and Transport I (Chair: Vadim Cheianov)

9:00-9:30	John Chalker Electron Interactions and Transport Between Coupled Quantum Hall Edges
9.30-9:50	Stefano Roddaro Non-linear transport and particle-hole symmetry in a quantum Hall device
9:50-10:10	Inanc Adagideli Intrinsic Spin Hall Edges
10:10-10:30	Branislav Nikolic Mesoscopic spin Hall effect in multiterminal spin-orbit coupled nanostructures: Local spin densities, total pure spin currents, and their shot noise

10:30-11:00 Coffee (Foyer)

MR2 Quantum Hall Effect and Transport II (Chair: Henning Schomerus)

11:00-11:30	Sergey Dorozhkin Interplay of inter and intra-Landau-level transitions in microwave photoresponse of two-dimensional electron systems
11:30-12:00	Marek Potemski Quasi-excitons and fractionally charged excitons in the vicinity of the $v = 1/3$ fractional quantum Hall state
12:00-12:30	Matthew Grayson Bending the quantum Hall effect: Novel metallic and insulating states in one dimension
12:30-13:00	Boris Altshuler Dephasing without Heating: New Experiments and Old Theory
13:00-13:45	Lunch (Foyer)

Posters

- Babak Abdollahipour Spin-polarized shot noise in diffusive spin-valve systems with non-collinear magnetizations
- Ilias Amanatidis and Steven Bailey Carbon nanotube electron turbines: a novel design for man-made nano-motors
- Alistair Armstrong-Brown
 Observation of multiple soliton-like modes in the quantum Hall edge dynamics
- Sophie Avesque Correlations vs impurities: or how to go from fractions to integers in the quantum Hall effect
- Christian Flindt FCS of NEMS
- Heidi Förster Full counting statistics for voltage and dephasing probes in a Mach-Zehnder interferometer
- Mihai Gabureac Spin-polarized transport in atomic-size ferromagnetic constrictions
- lain Grace Electron Transport in Molecular Wires
- Alexander Grishin Low Temperature Decoherence in Josephson Junction Qubits
- Fabian Hassler Using Qubits for Measuring Fidelity in Mesoscopic Systems
- Christopher Hooley
 To Be Announced
- Babak Hosseinkhani Magnetization Dynamics and Spin Pumping in Ferromagnetic Nanoclusters
- Daniel Huertas-Hernando
 Spin and interactions in chaotic quantum dots
- Anna Kauch Local momentum approach to multiorbital single impurity Anderson model with applications to transport in quantum dots
- Pengshun Luo Transport properties of Superconductor/Ferromagnet hybrid structures
- Mohammad Ali Maleki Superconducting proximity effect in the clean ferromagnetic domain structures
- Ghadir Mohammadkhani Non-sinusoidal current-phase relations in diffusive ferromagnetic Josephson junctions
- Jan Petter Morten Spin transport in superconductors
- Marcin Mucha-Kruczynski Electronic bands of a graphite bilayer – comparison of AB and AA stacking
- Kostya Novoselov
 Electric Field Effect in Thin Graphitic Films

- Elisabetta Paladino Decoherence and decoupling in superconducting nanocircuits
- Theodoros Papadopoulos Symmetry Breaking in Molecular Wires
- Cyril Petitjean Dynamically induced entanglement and decoherence. (The quantum to classical crossover)
- Peter Polinak Andreev Drag Effect via Magnetic Quasiparticle Focusing in SN Hybrid Waveguides
- Alessandro Potenza Superconducting critical temperature dependence on the layer sequence in Nb/Pd bilayers
- John P. Robinson Geometrical oscillations in the SAW induced acousto-electric effect
- Stanislas Rohart Magnetic anisotropy of mixed Co based clusters
- Adam Rycerz Entanglement and transport through correlated quantum dot
- Valentin Rytchkov Quantum versus classical division of current fluctuations
- Ken-ichi Sasaki Stabilization mechanism of edge states in graphene
- Skon Sirichantaropass Even-Odd Effects in Monovalent Atomic Chains
- Janine Splettstößer
 A diagrammatic approach to adiabatic pumping
- Tihomir Tenev
 Modeling spin-resolved transport through InSb quantum well
- Oleksandr Tsyplyatyev Spin current generated by a thermal flow, magnetothermopower and magnetoresistance in metals embedded with magnetic nanosclusters
- Daniel Urban Spin-dependent transport through quantum dots connected to three ferromagnetic leads
- Jing Zou Variable-polarization source of spin-polarized current