

## International conference on Nanoelectronics, 4-9 January 2003

### Saturday 4<sup>th</sup>

10.00-14.00 **Registration in the Conference Centre**  
13.00-14.00 Lunch (George Fox)  
14.10-14.30 **Conference opening**

**Please, note that on all days registration will be in the Conference Centre. That's where you get keys for your accommodation.**

#### **LT1 Materials and interfaces I** [Chair Walter Temmerman]

**All sessions will take place in George Fox Building.**

14.30-15.00 Mike Finnis M1  
*Ab initio calculations at interfaces*  
15.00-15.30 Stefan Bluegel M2  
*Interface Magnetism at the age of spintronics*  
15.30-16.00 Dzikka Szotek M3  
*Half-metallic transition metal oxides*

16.00-16.30 Coffee

#### **LT1 Diluted Magnetic Semiconductors (DMS)** [Chair: Tomas Jungwirth]

16.30-17.30 Allan MacDonald F1  
*Interplay of collective and quasi-particle degrees of freedom in DMS and metallic ferromagnets*  
17.30-17.30 Thomas Schulthess F2  
*The electronic state of Mn impurities in III-V semiconductors*  
17.30 -18.00 Francois Peeters F3  
*Manipulation of spin in DMS*

18.00-18.30 Posters up!

19.00-20.30 Dinner (Cartmel College)

20.20-21.30 Youth Orchestra concert (Great Hall - opposite to Cartmel College)

**Sunday, 5<sup>th</sup>**

7.45- 8.45 Breakfast in Cartmel College

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**LT1 Mesoscopic superconductors**

[Chair: Colin Lambert]

9.00- 9.30 Pertti Hakonen

S1

*Oscillating Josephson junction*

9.30-10.00 James Annett

S2

*Theory of half-integer flux quantization in  
d-wave superconducting rings*

10.00-10.30 Robert Shekhter

S3

*Shuttling of single electrons and Cooper pairs*

10.30-11.00 David Haviland

S4

*Cooper pair tunnelling and Coulomb blockade*

11.00-11.30 Coffee

**All sessions will take place in George Fox Building.**

**LT1 Magneto-transport and spin**

[Chair: Allan MacDonald]

11.30-12.00 Tomas Jungwirth

F4

*Transport properties of diluted magnetic  
semiconductor ferromagnets*

12.00-12.30 Bryan Gallagher

F5

*Magneto-transport in high quality GaMnAs*

12.30-13.00 Edward McCann

F6

*Magnon-assisted transport in ferromagnetic  
junctions*

**LT5/6 Nano-electronic materials: Optics**

[Chair: Philip Buckle]

11.30-12.00 Maurice Skolnick

M4

*Optics of single self-assembled quantum  
dots*

12.00-12.30 Eleftherios Economou

M5

*Photonic crystals and negative index  
materials*

12.30-13.00 Andrew Shields

M6

*Single photon generation and detection  
using semiconductor quantum dots*

13.00-14.00	Lunch (George Fox)				
<b>LT1</b>	<b>Molecular electronics I</b> [Chair: Nicolas Agrait]			<b>LT5/6</b>	<b>Correlations and Kondo effect in dots</b> [Chair: Igor Lerner]
14.00-14.30	Nikolai Zhitenev <i>Conductance of gated metal-molecule-metal nano-junctions</i>	M7		14.00-14.30	Bogdan Bulka <i>Coherent transport and electronic correlations in magnetic nano-devices</i>
14.30-15.00	Kurt Stokbro <i>Transiesta: A spice for molecular electronics</i>	M8		14.30-15.00	Jan von Delft <i>SU(4) Fermi liquid state in a double quantum dot system</i>
15.00-15.30	Georgios Fagas <i>Conductance of a molecular junction mediated by electrode surface states</i>	M9		15.00-15.30	Jurgen Weis <i>Kondo effect in single and electrostatically coupled quantum dot systems</i>
15.30-16.00	Uri Sivan <i>Molecular shift registers</i>	M10		15.30-16.00	Jurgen König <i>Aharonov-Bohm interferometry with interacting quantum dots</i>
16.00-16.30	Tea				
<b>LT1</b>	<b>Molecular electronics II</b> [Chair: Kurt Stokbro]			<b>LT5/6</b>	<b>Transport in quantum dots</b> [Chair: Klaus von Klitzing]
16.30-17.00	Peter Beton <i>Assembly and processing of organic nanostructures</i>	M11		16.30-17.00	Charles Marcus <i>Spin and symmetry in mesoscopic conductance and rectification</i>
17.00-17.30	Rosa Di Felice <i>Theoretical modelling of DNA-based nanowires</i>	M12		17.00-17.30	Rolf Haug <i>Transport through quantum rings and dots</i>
17.30-18.00	David Tomanek <i>Nanoelectronics with carbon</i>	M13		17.30-18.00	Vincent Bayot <i>Quantum transport in ballistic cavities subject to a strictly parallel magnetic field</i>
18.00-18.30	Gunther Lientschnig <i>Electrical measurements on phenylene-based conjugated molecules</i>	M14		18.00-18.30	John Jefferson <i>Two-electron quantum dots and scalable Qubits</i>
19.00-late	Reception (George Fox)				

**Monday 6<sup>th</sup>**

**Please, note that on all days registration will be in the Conference Centre.  
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All sessions will take place in George Fox Building.**

7.45- 8.45 Breakfast in Cartmel College

**LT1 Correlations and quantum transport**

[Chair: Yuli Nazarov]

- 9.00- 9.30 Leonid Glazman T1  
*Transport anomalies in multi-mode Luttinger liquids*
- 9.30-10.00 Igor Lerner T2  
*Zero-bias anomaly in the absence of equilibrium*
- 10.00-10.30 Stefan Kettmann T3  
*Kondo enhanced Anderson localisation*
- 10.30-11.00 Rodolfo Jalabert T4  
*Transport through strongly correlated systems*

11.00-11.30 Coffee

**LT1 Mesoscopic superconductors and hybrid structures I** [Chair: Venkat Chandrasekhar ]

- 11.30-12.00 Hideaki Takayanagi S5  
*Ferromagnetism and superconductivity in artificial crystals*
- 12.00-12.30 Gilles Montambaux S6  
*Mesoscopic NS rings:  
From persistent to Josephson current*
- 12.30-13.00 Mattias Eschrig S7  
*Theory of half metal - superconductor heterostructures*

13.00-14.00 Lunch (George Fox)

**LT5/6 Materials and interfaces II**

[Chair: Stefan Bluegel]

- 9.00- 9.30 Fabrizio Cleri M15  
*Modelling the electrical conductivity at grain boundaries and surfaces*
- 9.30-10.00 Ingrid Mertig M16  
*Stability and transport in nano-contacts: An ab initio description*
- 10.00-10.30 Mariusz Krawiec M17  
*FFLO state in FM/SC heterostructures*
- 10.30-11.00 Paul Kelly M18  
*Materials-specific theory for spin electronics*

**LT5/6 Quantum transport and noise**

[Chair: Christian Glattli]

- 11.30-12.00 Denis Basko T5  
*Dynamic localization in quantum dots:  
Analytical theory*
- 12.00-12.30 Alex Savchenko T6  
*Shot noise in transport via localised states*
- 12.30-13.00 Yuli Nazarov T7  
*Interactions, resonant tunnelling and transmission distribution*

<b>LT1</b>	<b>Atomic-size contacts and molecular electronics</b> [Chair: Uri Sivan]	
14.00-14.30	Jan van Ruitenbeek <i>Atomic-size conductors: Chains of atoms and hydrogen molecules</i>	M19
14.30-14.50	Matthias Hettler <i>Transport through molecules</i>	M20
14.50-15.10	Nicolas Agrait <i>Forces and vibration modes in a chain of single gold atoms</i>	M21
15.10-15.40	Poul Lindelof <i>Electron spin in carbon nanotubes</i>	M22
15.40-16.10	Christian Schönberger <i>Carbon nanotube quantum dot with superconducting leads</i>	M23
16.10-16.30	Sophie Gueron <i>Superconductivity of carbon nanotubes</i>	M24
16.30-17.00	Andrew Briggs <i>Quantum computing with nanoelectronics structures</i>	M25
17.00-18.30	<b>Poster Session: odd poster numbers</b> (with tea and refreshments)	
18.30-19.30	Dinner (Cartmel College)	
19.30-21.00	<b>Poster Session: even poster numbers</b> (with deserts and drinks)	

**Tuesday 7<sup>th</sup>**

7.45- 8.45 Breakfast in Cartmel College

**LT1 Decoherence and noise in metals and superconductors** [Chair: Per Delsing]9.00- 9.30 Wolfgang Belzig S8  
*Phase-sensitive shot noise in an Andreev interferometer*9.30-10.00 Marcus Büttiker S9  
*Chaotic dot - superconductor analogy of the Hanbury Brown Twiss effect*10.00-10.30 Laurent Lévy S10  
*Spectroscopy and decoherence in double-island Qubits*10.30-11.00 Carlo Beenakker S11  
*Pascal distribution of voltage fluctuations out of equilibrium*

11.00-11.30 Coffee

**LT1 Quantum dots and Qubits** [Chair: Charles Marcus]11.30-12.00 Jörg Kotthaus D9  
*Coherent transport and electronic interactions in quantum dots*12.00-12.30 Klaus Ensslin D10  
*Spin effects in quantum dots and quantum rings*12.30-13.00 Christopher Ford D11  
*Kondo effect in an anti-dot in the quantum Hall regime*

13.00-14.00 Lunch (George Fox)

**LT5/6 Quantum transport and correlations** [Chair: Mark Sanquer]9.00- 9.30 Amir Yacoby T8  
*Imaging localization in the quantum Hall regime*9.30-10.00 Rolf Crook T9  
*Scanned gate microscopy to investigate transport in disordered 1D wires*10.00-10.30 Roberto Raimondi T10  
*Non-linear transport and quantum interaction corrections in disordered systems*10.30-11.00 Jean-Louis Pichard T11  
*Electron super-solid on square lattices***LT5/6 Mesoscopic superconductors and hybrid structures** [Chair: Carlo Beenakker]11.30-12.00 Olivier Buisson S12  
*Quantum dynamics of a current biased DC-SQUID*12.00-12.30 Paul Warburton S13  
*Nano-scale 1D arrays of intrinsic Josephson junctions*12.30-13.00 Bernard Pannetier S14  
*Cooper pair transport in an array of Josephson nano-junctions with dice lattice*

14.00-14.30	David Williams <i>Semiconductor structures for quantum information processing</i>	D12	14.00-14.30	Venkat Chandrasekhar <i>Thermopower in Andreev interferometers: Supercurrents and persistent currents</i>	S15
14.30-15.00	Daniel Loss <i>Spintronics and quantum computing in nanostructures</i>	D13	14.30-15.00	Fernando Sols <i>Entangled electron current through NS interfaces</i>	S16
15.15-16.00	<b>NoE structure and activities - general discussion</b>				
	Raymond Monk			<i>EC - Framework 6 Programmes</i>	
	Colin Lambert			<i>Network of Excellence in Nanoelectronics</i>	
16.00-18.00	<b>Break out sessions for NoE structure, mechanisms and activities - I</b>				
LT2	Quantum transport and noise [Bernhard Kramer]				
LT3	Materials and nano-electronic devices [John Jefferson]				
LT4	Molecular-scale electronics and atomic contacts [Jan van Ruitenbeek]				
LT5/6	Correlations in Quantum dots, wires and rings [Rolf Haug]				
17.00-18.00	<b>Break out sessions for NoE structure, mechanisms and activities - II</b>				
LT2	Materials and interfaces [Walter Temmerman]				
LT3	Quantum manipulation & Qubits [Göran Wendin]				
LT4	Proximity effects and hybrid structures [Bernard Pannetier]				
LT5/6	Spin-dependent transport and control [Jan von Delft]				
18.00-18.45	<b>NoE structure, mechanisms and activities - III</b>				
LT1	Integrating Activities [Poul Lindelof]				
19.00-late	Indian night dinner (Cartmel College)				

## Wednesday 8<sup>th</sup>

7.45- 8.45 Breakfast in Cartmel College

### LT1 Spin-dependent transport and control I

[Chair: Bryan Gallagher]

- 9.00- 9.30 Laurens Molenkamp F7  
*Spin injection and detection in semiconductor spintronics*
- 9.30-10.00 Bart van Wees F8  
*Spin injection, spin transport and spin manipulation in mesoscopic systems*
- 10.00-10.30 Albert Fert F9  
*Spin injection and spin transfer experiments*
- 10.30-11.00 Arne Brataas F10  
*Spin-battery operated by ferromagnetic resonance*

11.00-11.30 Coffee

### LT1 Spin-dependent transport and control II

[Chair: Bart van Wees]

- 11.30-11.50 Xenophon Zotos F11  
*Ballistic transport in bulk 1D electronic/magnetic systems*
- 11.50-12.10 Dietmar Weinmann F12  
*Spin dependent transport through magnetic domain walls in nanowires*
- 12.10-12.30 Giancarlo Faini F13  
*Magnetization reversal in Co/Cu/Co pillars by spin injection*
- 12.30-13.00 Andre Geim F14  
*Domain walls in the Peierls potential*

### LT5/6 Mid-term review of RTN ‘Nanoscale Dynamics, Coherence and Computation’

9.00 – 10.00 **Overview by Coordinator:**  
Prof. C. Lambert

### LT5/6 Presentations by teams:

- 10.00-10.15 Lancaster: Stavros Athanasopoulos  
10.15-10.30 Lancaster: Ioanna Kyriakou  
10.30-10.45 FORTH, Heraklion: Prof. E. Economou  
10.45-11.00 Heraklion: Dr. Jorge Ripoli

### LT5/6 Presentations by teams:

- 11.30-11.45 Universiteit Leiden: Prof. C. Beenakker  
11.45-12.00 Universiteit Leiden: Dr. J. Tworzydło  
12.00-12.15 UAM Madrid: Prof F. Sols  
12.15-12.30 Madrid: Dr. Heiner Kohler  
12.30-12.45 Universität Hamburg: Prof. B. Kramer  
12.45-13.00 Hamburg: Riccardo Mazzarello

13.00-14.30 Lunch (George Fox)

13.00-13.45 **Visits to the ‘Coldest place in the universe’:  
Lancaster Ultra-LowT Lab** [George Pickett,  
13.30-14.15 Shaun Fisher, Ian Bradley, Richard Haley]

**LT1 Quantum manipulation & Qubits I**

[Chair: Laurent Lévy]

14.30-15.00 Hans Mooij S17

*Superconducting flux Qubits*

15.00-15.30 Cristian Urbina S18

*Operation of a solid state Qubit circuit*

15.30-16.00 Lieven Vandersypen S19

*Electron spin Qubits in quantum dots*

16.00-16.30 Tea

**Quantum manipulation & Qubits I**

[Chair: Göran Wendin]

16.30-17.00 Per Delsing S20

*Coherent oscillations in a single Cooper pair box*

17.00-17.30 Yuriy Makhlin S21

*Noise and dephasing in Josephson Qubits*

17.30-18.00 Rosario Fazio S22

*Decoherence in a Cooper pair shuttle*

18.30-late Conference dinner (Cartmel Hall)

**LT5/6 Presentations by teams:**

14.00-14.15 INFM Genova: Prof. R. Fazio

14.15-14.30 Genova: Dr. Andreas

14.30-14.45 Budapest University: Prof. G. Vattay

14.45-15.00 CEA, Saclay: Dr. Jean-Louis Pichard

15.00-15.15 Saclay/ Strasbourg: Dr. Rafael Molina

15.15-15.30 Saclay/Strasbourg: Adam Zoltan Nemeth

15.30-15.45 Universität Karlsruhe: Dr. Jurgen König

15.45-16.00 Karlsruhe: Mateusz Cholachinski

16.00-16.45 **Closed session with young researchers**

**LT5/6 Presentations by teams:**

16.45-17.00 University of Geneva: Prof. M. Büttiker

17.00-17.15 Geneva: Dr. David Martin

17.15-17.30 Geneva: Dr. Rosa Gonzalo

17.30-18.00 **Feedback session and close of RTN review**

**Thursday 9<sup>th</sup>**

7.45- 8.45 Breakfast in Cartmel College

6.00 early minibus to Manchester airport

8.30 car to Liverpool airport

9.15 minibus to Manchester airport

**LT1****Proximity, hybrid structures, mesoscopic superconductivity** [Chair: Hans Mooij]

9.00- 9.30 Fabio Beltram S23

*Quasi-particle ballistic transport in hybrid (and other) nanostructures*

9.30-10.00 Frank Hekking S24

*Measurement of coherent charge transfer in an adiabatic Cooper pair pump*

10.00-10.30 Victor Petrashov S25

*Electron transport in hybrid metallic nanostructures*

10.30-11.00 Coffee

**LT1****Quantum of transport, statistics and noise** [Chair: Bernhard Kramer]

11.00-11.20 Boris Muzykantskii T12

*Quantum statistics of non-equilibrium Fermi gas*

11.20-11.40 Maura Sassetti T13

*Spin and shot noise effects in 1D quantum dots*

11.40-12.00 Klaus Richter T14

*Spin control and spin relaxation in mesoscopic transport*

12.00-12.30 Dominique Mailly T15

*Quantum coherence in GaAlAs lattices: Evidence for Ahronov-Bohm cage effect***Before leaving, please, return your keys to the collection point in the foyer of George Fox Building**12.30-13.00 **NoE summary and Closing of the meeting**

12.30 Minibus to Manchester airport

13.45-14.30 Lunch (George Fox)

13.30-13.45 Coach to Manchester airport

15:00 Minibus to Liverpool airport

Poster Session on Monday, January 6<sup>th</sup>

LT2: P1-P24

LT4: P25-P50

Foyer: P51-P86

Jan Aarts	<i>Depairing currents in Superconductor - Ferromagnet (S/F) proximity systems</i>	P1	Cecile Bacca Ursula Schröter Jochen Grebing Vojko Kunej	<i>Electronic transport measurements through single atoms and clusters</i>	P2
Alexei Bagrets	<i>Ab-initio Study of the Magnetoresistance Effects in Magnetic Nanocontacts</i>	P3	Grzegorz Banach	<i>Study of half-metallicity in LSMO junctions</i>	P4
Vincent Bayot	<i>Quantum transport, dephasing and spin-orbit coupling in an open ballistic Bismuth quantum dot</i>	P5	Vincent Bayot	<i>Long dephasing time and high temperature conductance fluctuations in an InGaAs open quantum dot</i>	P6
Jean-Marc Berroir	<i>Quantum Noise of a Resistor: A Low Temperature Hanbury-Brown Twiss Experiment with GHz Photons</i>	P7	Janusz Dubowik	<i>Temperature dependence of the higher order magnetic anisotropies in Co/Au multilayer structures</i>	P8
Mateusz Cholascinski	<i>Fault Tolerant Superconducting Qubit</i>	P9	Ursula Dettlaff	<i>Towards All Carbon Transistors</i>	P10
Clive Emary, Tobias Brandes	<i>Quantum Chaos and Quantum Phase Transitions: The Dicke Model</i>	P11	Sigurdur Erlingsson	<i>Long Period Oscillations of the Leakage Current Through a Double Quantum Dot System</i>	P12
Ferdinand Evers	<i>Coherent Transport Through a Molecule: DFT Calculations</i>	P13	Peter Falloon	<i>Spin-Dependent Blocking of Conduction Channels in Ferromagnetic Nanowires due to Domain Walls</i>	P14
Denis Feinberg	<i>Coherent Transport at Multi-terminal Superconductor/Ferromagnetic Structures</i>	P15 P15'	Mikael Fogelstrom	<i>Shot Noise and Multiple Andreev Reflections in D-Wave Superconductors</i>	P16
Christian Glattli	<i>A Scheme for Quantum Information Processing Using Ballistic Electron</i>	P17	Guido Goldoni	<i>Manipulating the Coupling in Artificial Molecules</i>	P18
John Gallop	<i>Quantised electrical and thermal conductance in carbon nanotubes</i>	P19	Wiebke Guichard	<i>Phase Sensitive Experiments in SFS Josephson Junctions</i>	P20
Frank Hohls	<i>Noise Measurements on InAs Quantum Dots</i>	P21	Andrew Jordan	<i>Sub-Planck Structure, Decoherence, and Many-Body Environments</i>	P22
Oleg Jouravlev	<i>Enhanced Shot Noise in Resonant Tunnelling via Interacting Localised States</i>	P23	Heinerich Kohler	<i>On the Influence of the Electromagnetic Vacuum on the Macroscopic Phase</i>	P24
Janos Koltai	<i>Non-local Currents at Ferromagnetic-Superconductor Interfaces</i>	P25	Vladislav Korenivski	<i>Spin Dependent Transport in F-N(S)-F Nanoscale Devices</i>	P26

Andrew Kretinin	<i>Oscillatory Instability in Short-Gate GaAs MESFETs</i>	P27
Neil Lambert	<i>Steering of a Bosonic Mode with a Double Quantum Dot</i>	P29
Rosa Lopes	<i>Transport Through Double Quantum Dots: An Artificial Version of the Two -impurity Kondo Problem</i>	P31
Miguel Marques	<i>Excited Properties of Finite Systems from TDDFT</i>	P33
Jan Martinek	<i>Kondo Effect in Quantum Dots Coupled to Ferromagnetic Electrodes</i>	P35
Malachy Montgomery	<i>Inelastic Current-Voltage Spectroscopy of Atomic Wires</i>	P37
Zoltan Nemeth	<i>Ground State of a Partially Melted Wigner Molecule</i>	P39
Chris Newman	<i>Resurrection of conductance oscillations in ferromagnetic Andreev interferometers in the presence of a "chiral" exchange field.</i>	P41
Fabian Pauly	<i>Conductance of a Hydrogen Molecule</i>	P43
Fabio Pistoiesi	<i>Subgap noise of a superconductor – normal - metal tunnel interface</i>	P45
Peter Polinak Jozsef Cserti	<i>Excitation spectrum of superconductor-normal disk system in magnetic field</i>	P47
A. Rocha S. Sanvito	<i>Transport in magnetic point contacts using non-equilibrium Green function's formalism</i>	P49
Tomaz Rejec Anton Ramsak	<i>Conductance Anomalies and the Extended Anderson Model for Nearly Perfect Quantum Wires</i>	P51
John Robinson	<i>Geometrical commensurability oscillations in the non-linear effects caused by SAW propagation through a 2D electron gas</i>	P53

Andor Kormanyos	<i>A logarithmic contribution to the density of states of rectangular Andreev billiards</i>	P28
Denis L'Hote	<i>Resistance Fluctuations in a Two-Dimensional Electronic System</i>	P30
Procolo Lucignano	<i>Low Tc Josephson Junction Response to an Ultra-fast Laser Pulse</i>	P32
Thierry Martin	<i>Noise Correlations and Entanglement in Nanophysics</i>	P34
Edward McCann	<i>Magnon-assisted transport in ferromagnet - superconductor junctions</i>	P36
Rafael Molina	<i>Influence of the Contacts on the Transport Through Interacting Nanowires</i>	P38
Konstantin Novoselov	<i>Hall Microprobes for Room Temperature Applications</i>	P40
Andreas Osterloh	<i>Entanglement Dynamics in Transverse Anisotropic XY Models</i>	P42
Natalie Pavlenko	<i>Electronic Charge Polarization Coupling in Superconductor Ferroelectric Superlattices</i>	P44
Peter Pollner	<i>Chaos in Andreev Billiards</i>	P46
Martti Puska	<i>Simulation of Metallic Nanowire Breaking with Jellium Models</i>	P48
Esa Rasanen	<i>Electronic Structure of Rectangular Quantum Dots</i>	P50
Jorge Ripoll	<i>Imaging within Turbin Media with the Kirchhoff Approximation for Diffusive waves</i>	P52
Patrice Roche	<i>Measuring the Fano Factor of Quasiparticles without DC Bias</i>	P54

Alexandre Roussanov	<i>Depairing Currents in FS Proximity Systems</i>	P55
Laurent Saminadayar	<i>Anomalous Temperature Dependence of the Dephasing Time in Mesoscopic Kondo Wires</i>	P57
David Sanchez	<i>Nonequilibrium Spintronic Transport through an Artificial Kondo Impurity</i>	P59
Fabio Taddei	<i>Pumping Spin with Electrical Fields</i>	P61
Grigory Tkachev	<i>Quasi-one dimensional proximity effect transistor</i>	P63
Jacob Tworzydło	<i>Hypersensitivity to perturbations of quantum-chaotic wave-packet dynamics</i>	P65
Gabor Vattay	<i>Level Statistics in NS Quantum Graphs</i>	P67
Robert Whitney	<i>Berry Phase in a Non-Isolated System</i>	P69
Ludger Wirtz	<i>Semiclassical Theory for Transport Through Ballistic Quantum Dots</i>	P71
Steve Bailey	<i>Whispering gallery modes in circular Andreev billiards.</i>	P73
Yury Bugoslavsky	<i>Experimental issues of transport spin polarisation in half-metallic materials</i>	P75
Fabio Cavaliere	<i>Non-universal power laws in transport properties of 1D quantum dot</i>	P77
Yuriy Makhlin	<i>Counting statistics of adiabatic quantum pumps</i>	P79
S. Athanassopoulos	<i>Giant Magnetoresistance in Carbon Nanotubes</i>	P81
G. Gehring C. Sriniwasarawong	<i>Spin-dependent tunnelling between magnetic oxides.</i>	P83

Sergey Safonov	<i>Shot Noise in Short-Gate GaAs MESFETs</i>	P56
Peter Samuelsson	<i>Positive current correlations in chaotic dot – superconductor systems</i>	P58
James Stanley Neil Pattinson	<i>Rashba Spin-Splitting in Narrow Gap III-V Semiconductors</i>	P60
Arturo Tagliacozzo	<i>Adiabatic Control of Electron Phase Quantum Dot</i>	P62
Kristian Thygesen	<i>Conductance Calculations with a Wavelet Basis</i>	P64
Gerrit van der Laan	<i>Soft X-ray Resonant Magnetic Scattering and Magnetic Speckle Spectroscopy of Magnetic Nanostructures</i>	P66
Vitor Vieira	<i>Influence Functional for Spin Systems in Contact with a Phonon Heat Bath</i>	P68
Willems van Beveren	<i>ESR In Lateral Quantum Dots</i>	P70
Michele Zaffalon	<i>Spin Injection and Spin Accumulation in a Mesoscopic Metallic Island</i>	P72
Paul Dolby	<i>Study of the Possible Pairing Scenarios in High Temperature Superconductors Using Sub-gap D.C. Transport</i>	P74
Iain Grace	<i>Electron Transport in Sliding Multiwall Carbon Nanotubes</i>	P76
Bernard Pannetier	<i>STM spectroscopy of S-N and S-F hybrid structures</i>	P78
K. Hasselbach	<i>Direct Observation of vortex lattice transitions in microstructured Al</i>	P80
Ulf Gennser	<i>Energy pseudogap in periodic arrays of AlGaAs quantum wires</i>	P82
Giuseppe Falci	<i>Communicating Josephson Qubits</i>	P84