

Schedule Workshop "Nanoelectronics", May 16-21, 2010

Final Version 20100510

Sunday, May 16

1700- Registration and get together reception

Monday, May 17

0900-0930 Registration in the Conference Hall (Campus Center)

0930-0945 welcome

0945-1100 C. Strunk (Regensburg)
Quantum electronics with Carbon nanotubes: from spin-dependent
bandstructure to spin entanglement

1100-1115 coffee

1115-1230 E. Mariani (Exeter)
Electromechanical properties of graphene

1230-1430 lunch in College Nordmetall

1430-1545 G. Cuniberti (Dresden)
Phonon transport in large scale carbon based disordered materials

1545-1600 coffee

1600-1715 Hélène le Sueur (Marcoussis)
Non-Equilibrium edge Channel spectroscopy in the integer quantum
hall regime

1715-1745 Dario Ferraro (Genova)
Multiple-quasiparticles tunneling between fractional quantum Hall
edge states

1745-1815 Discussion

1830-2000 Dinner in College Nordmetall

2000- Reception, posters, informal discussions in University Club

Tuesday, May 18

0900-1015 H.P. Oepen (Hamburg)
Magnetic characterization of single nanostructures

1015-1130 G. Bouzerar (Grenoble)
Magnetism and Transport in diluted magnetic semiconductors

1130-1145 coffee

1145-1300 B. Bulka (Poznan)
Introduction to electronic transport in magnetic nanodevices:
giant magnetoresistance and current induced effects

1300-1430 lunch in College Nordmetall

1430-1500 B. Kramer (Jacobs University)
Excursion and opera description

1500-1545 trip to Bremen

1545-1715 city tour

1715-2200 Conference Dinner (Theater am Goetheplatz)
"La Traviata" (Guiseppe Verdi)

2230-2300 trip to Bremen Nord

Wednesday, May 19

0900-1015 M. Büttiker (Geneva)
Single charge emission from mesoscopic capacitors

1010-1130 J. Splettstößer (Aachen)
Two-particle physics from single particle sources

1130-1145 coffee

1145-1300 J. Jefferson (Malvern)
Spin qubits

1300-1430 lunch in College Nordmetall

1430-1545 E. Scheer (Konstanz)
Magnetic ordering in atomic chains of transition metals

1545-1700 C. Lambert (Lancaster)
Controlled electron transport through single molecules

1700-1715 coffee

1715-1830 F. Sols (Madrid)
Electron cooling in nanostructures

1830-2000 Dinner in College Nordmetall

2000- C. Lambert (Lancaster)
Organisational meeting in University Club

2000- Reception, posters
Informal discussions in University Club

Thursday, May 20

- 0900-1015 T. Brandes (Berlin)
Feedback control of quantum transport
- 1015-1130 G. Platero (Madrid)
Magnetotransport and electron spin resonance in quantum dots
- 1130-1145 coffee
- 1145-1215 A. Ramsak (Ljubljana)
Electron transport through molecules in the Kondo regime: the role of molecular vibrations
- 1220-1250 G. David, J. Cserti (Budapest)
General Theory of the Zitterbewegung
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- 1300-1430 lunch in College Nordmetall
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- 1430-1500 P. Wenk (Jacobs University)
Dimensional control of spin relaxation and anti-localization in quantum wires
- 1505-1535 P. Rakytá (Budapest)
Mapping of monolayer graphene with spin-orbit bilayer coupling
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- 1540-1605 coffee
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- 1605-1635 F. Pauly (Karlsruhe)
Theoretical studies of charge transport through molecular and metallic atomic wires
- 1640-1710 G. Lemarié (Paris)
Experimental observation of the Anderson transition with atomic matter waves
- 1715-1830 J.-L. Pichard (Paris)
Quantum conductance of a nano-system where electrons interact: universality and sensitivity to external scatterers
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- 1830-2000 Dinner in College Nordmetall
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- 2000- Reception, posters, informal discussions in University Club

Friday, May 21

- 0900-0940 Gerd Schön (Karlsruhe)
Circuit QED
- 0945-1015 M. Eschrig (Karlsruhe)
Unconventional superconducting heterostructures
- 1020-1050 D. Golubev (Karlsruhe)
Statistics of voltage fluctuation in resistively shunted Josephson
junction
- 1055-1125 L. Oroszlány (Budapest)
Carbon nanotube Archimedes screws
- 1130-1145 coffee
- 1145-1300 C. Beenakker (Leiden)
Majorana Fermions in topological superconductors

1300-1430 lunch in College Nordmetall

1430- Departures
