



**school for
contacts in nanosystems**

Autumn Workshop

**October 13th / 15th 2011
Hannover**



NTH School for Contacts in Nanosystem

www.nth-nano.de

Workshop Organisation

Prof. Dr. Rolf J. Haug

Dr. Daniel Tutuc

Leibniz Universität Hannover

Institut für Festkörperphysik

Abteilung Nanostrukturen

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Thursday 13th

18:00	Welcome Dinner
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Friday 14th

Breakfast from 7:30

Time	Speaker	Title
9:00	Rolf J. Haug (NTH School for Contacts in Nanosystems)	Opening
9:10	Patrik Recher (TU Braunschweig)	Electron transport on topological insulators
10:00	Rok Žitko (Jožef Stefan Institute, Ljubljana)	Accurate calculations for the Kondo peak splitting
10:50	Coffee break	
11:10	Daniel Tutuc (NTH School for Contacts in Nanosystems)	Kondo effect in RKKY coupled quantum dots
12:00	Björn Braunschweig (Universität Erlangen)	Vibrational sum-frequency generation at interfaces: From catalysis to molecular electronics
12:50	Lunch	
14:00	Winfried Daum (NTH School for Contacts in Nanosystems)	Probing electronic and chemical properties of semiconductor interfaces by optical second harmonic generation
14:50	Martin Bröring (TU Braunschweig)	Chemical Communications - A chemist's bottom-up view on Nanocontacts
15:40	Coffee break	
16:00	Armin Gölzhäuser/Andre Beyer (Universität Bielefeld)	Helium-Ions Microscopy: A new tool for imaging and lithography
17:00	Hendrik Kuhn	Ultra-fast spin noise spectroscopy
17:30	Poster session	
19:00	Dinner	

Saturday 15th

Breakfast from 7:30

Time	Speaker	Title
9:00	Matthe Uijtewaal (NTH School for Contacts in Nanosystems)	Energy conversion processes in molecular systems at Nano-contacts
9:50	Jörg Schäfer (Universität Würzburg)	Electronic properties of atomic-scale quantum chains on surfaces
10:40	Coffee break	
11:00	Pablo Esquinazi (Universität Leipzig)	Superconducting behavior of interfaces in graphite: A way to room temperature superconductivity?
11:50	Grazyna Antczak (University of Wrocław)	Molecular surface diffusion and adsorption on metal surface
12:40	Lunch	
14:00	Julien Bachman (Universität Hamburg)	Ordered arrays of nanotubes for the investigation of magnetic and chemical contacts
15:00	Andreas Kraus	Pulsed growth of InN
15:15	Dirk Wulferding	Excitations of spin liquid states
15:30	Coffee break	
16:00	Peter Lemmens	Resonant scattering on topological insulator surface states
16:15	Henrik Schmidt	Electronic transport in graphene nanostructures
17:00	Guided Tour in Hannover Altstadt	

Posters

David Krüger	P1	Spatially-resolved STS studies on deep dry etched GaN nanopillars
Hongdan Yan	P1	Plasmons touch molecules: spectroscopic investigations
Ulrich Krieg	P1	1D-plasmons in Ag-nanowires grown via self assembly
Malcolm Einhellinger	P2	Non-linear charge transport in one-dimensional correlated conductors
Jan Grelik	P2	Persistent Currents in the Open Heisenberg Chain
Brendan E. Coughlan	P2	Quantum impurities and contacts
Björn Willenberg	P2	Magnetic impurities in contact with low-dimensional quantum anti-ferromagnets
Hauke Horn	P3	Spin noise spectroscopy of ZnO
Ramin Dahbashi	P3	Spin noise spectroscopy of semiconductor quantum dots
Vedran Bandalo	P3	Translocation measurements through thin semiconductor membranes
Achyut Bora	P3	Electronic transport through organophosphonate monolayers on Si/SiO ₂ substrates
Anshuma Pathak	P3	Spin-orbit dominated materials: From topological insulators to exotic magnetism
Fatih Cetin	P3	
Dimitri Smirnov	P4	Aharonov-Bohm effect in an electron-hole graphene system
Alexander Heine	P4	Magneto-transport through quantum dots in Kondo regime

Directions



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Traveling with public transport from Hannover Airport:

From Hannover Airport please take the S-Bahn line S5 in the direction Hameln, until Hannover Hauptbahnhof. From Hannover Hbf. take the S-Bahn line S3 from Platform 14 or the regional train R9 from Platform 13 in the direction Lehrte, until Kleefeld Bahnhof. From there take the Bus 127 (direction Pappelwiese) or Bus 137 (direction Spannhagengarten) until the bus-stop Lathusenstraße. Travel time: 41 minutes.

Traveling with public transport from Hannover Hauptbahnhof:

From Hannover Hbf. take the S-Bahn line S3 from Platform 14 or the regional train R9 from Platform 13 in the direction Lehrte, until Kleefeld Bahnhof. From there take the Bus 127 (direction Pappelwiese) or Bus 137 (direction Spannhagengarten) until the bus-stop Lathusenstraße. Travel time: 20 minutes

Alternative: From Hannover Hbf. take the U-Bahn line 1 (direction Laatzen) or line 2 (direction Rethen) until Aegidientorplatz. From Aegidientorplatz take to U-bahn line 4 (direction Roderbruch) or line 5 (direction Anderten) until Kantplatz. From there take the Bus 127 (direction Pappelwiese) or Bus 137 (direction Spannhagengarten) until the bus-stop Lathusenstraße. Travel time: 25 minutes

