



school for
contacts in nanosystems

Winterschool

February 13th / 19th 2011
Bad Hofgastein, Austria



NTH School for Contacts in Nanosystem
www.nth-nano.de

Winterschool Organisation
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Monday 14th

Internet access via wireless lan in the conference room.

Time	Speaker	Title
07:30	Breakfast	
09:00	Opening Rolf J. Haug (NTH School for Contacts in Nanosystems)	
09:20	Herbert Pfnür (NTH School for Contacts in Nanosystems)	Plasmons in low dimensions
10:10	Coffee break	
10:30	Michael Reshchikov (Virginia Commonwealth University)	The effect of the surface on electrical and optical properties of semiconductor materials and nanostructures (I)
11:20	Michael Reshchikov (Virginia Commonwealth University)	The effect of the surface on electrical and optical properties of semiconductor materials and nanostructures (II)
12:10	Discussions break	
17:00	Matthe Uijtewaal (NTH School for Contacts in Nanosystems)	The how, what and why of state of the art Density Functional Theory
17:50	Coffee break	
18:10	Student session	
	Milena Erenburg	The nanoLED approach
	Xue Wang	MOVPE for GaN nanorod growth
	Johannes Ledig	Characterization of single nanoLEDs
19:10	Dinner	

Tuesday 15th

Internet access via wireless lan in the conference room.

Time	Speaker	Title
07:30	Breakfast	
08:30	Rosa Lopez-Gonzalo (Universitat de les Illes Balears, Mallorca)	General approaches on Kondo effect in nanostructures
09:20	Rosa Lopez-Gonzalo (Universitat de les Illes Balears, Mallorca)	Exotic Kondo correlations in nanostructures
10:10	Coffee break	
10:30	Maxmilian C. Rogge (NTH School for Contacts in Nanosystems)	Experiments on Kondo and other spin effects in quantum dots
11:20	Student session	
	Brendan E. Coughlan	Microscopic analysis of transport through a mesoscopic system
	Malcolm Einhellinger	Transport simulations in correlated one-dimensional systems
	Jan Grelik	Persistent currents in the open Heisenberg chain
12:10	Discussions break	
17:00	Holger Eisele (TU Berlin)	Non-polar nitride surfaces studied by scanning tunneling microscopy and spectroscopy
17:50	Coffee break	
18:10	Gertrud Zwicknagl (NTH School for Contacts in Nanosystems)	Correlated electrons: theoretical models and methods
19:10	Dinner	

Wednesday 16th

Internet access via wireless lan in the conference room.

Time	Speaker	Title
07:30	Breakfast	
08:30	Holger Eisele (TU Berlin)	Cross-sectional STM on conventional III-V semiconductor nanostructures
09:20	Ulrich Starke (MPI Stuttgart)	Atomic and electronic surface structure
10:10	Coffee break	
10:30	Ulrich Starke (MPI Stuttgart)	Epitaxial graphene
11:20	Student session	
	Henrik Schmidt	Electronic properties of decoupled graphene monolayers
	Majdi Salman	The detection of terahertz radiation via graphene based devices
	Alexander Wagner	Zinc Oxide based DSSCs
12:10	Discussions break	
17:00	Jascha Repp (Universität Regensburg)	Introduction to Scanning Tunneling Spectroscopy on Thin Insulating Films
17:50	Coffee break	
18:10	Jascha Repp (Universität Regensburg)	Scanning Tunneling Spectroscopy of Molecules on Thin Insulating Films
19:10	Dinner	

Thursday 17th

Internet access via wireless lan in the conference room.

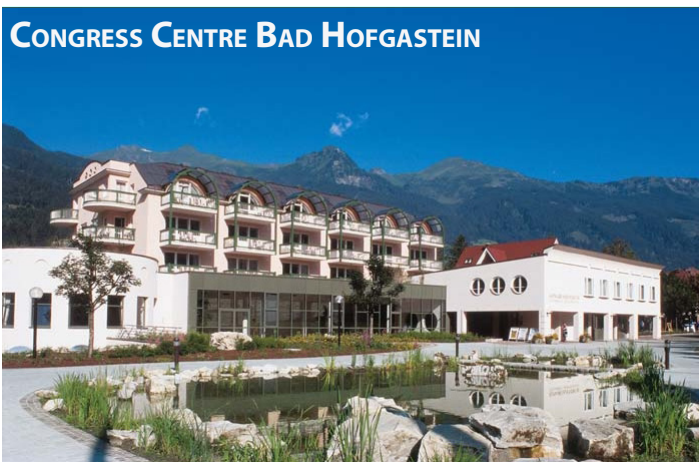
Time	Speaker	Title
07:30	Breakfast	
08:30	Karina Morgenstern (NTH School for Contacts in Nanosystems)	Scanning tunneling microscopy
09:20	Jürgen Christen (Universität Magdeburg)	Scanning cathodoluminescence microscopy for micro- and atomic-scale characterization of semiconductor nanostructures
10:10	Coffee break	
10:30	Jürgen Christen (Universität Magdeburg)	Disorder and excitonic transport in semiconductor nanostructures investigated using spatio-time-resolved cathodoluminescence spectroscopy
11:20	Herbert Schoeller (RWTH Aachen)	Nonequilibrium phenomena and time evolution in quantum dots at low temperatures (I)
12:10	Discussions break	
17:00	Herbert Schoeller (RWTH Aachen)	Nonequilibrium phenomena and time evolution in quantum dots at low temperatures (II)
17:50	Coffee break	
18:10	Student session	
	Georg Müller	Spin Dynamics of Equilibrium Electrons in Gallium Arsenide
	Hauke Horn	Time resolved photoluminescence spectroscopy of ZnO/ Zn _{1-x} Mg _x O MQWs on nanorods
	Björn Willenberg	Spin-Dimers in Contact with Quantum Antiferromagnets
19:10	Dinner	

Friday 18th

Internet access via wireless lan in the conference room.

Time	Speaker	Title
07:30	Breakfast	
09:00	Student session	
	Vedran Bandalo	Nanopore based measurements
	Ihab Schukfeh	Conductance enhancement of InAs/InP heterostructure nanowires by surface assembly of oligo-phenylenevinylene molecular wires
	Klaus Stallberg	Spectromicroscopic route to study molecular interaction of porphyrins in contact with surfaces and nanostructures
	Björn Siebrands	Investigation of Zn- and Mg-porphyrin molecules on Aluminium Oxide templates by multiscale STM
10:20	Coffee break	
10:50	Student session	
	Andreas Kraus	Growth and electronic properties of III-nitride surfaces and interfaces
	Dirk Wulferding	Morphology and functionalization of nanoscale templates based on anodic aluminium oxide
	Friederike Matthaai	Growth and structure of NaCl on Ag(111)
	Ulrich Krieg	Plasmons in Ag-Nanowires grown on Si(557)
12:10	Closing Rolf J. Haug (NTH School for Contacts in Nanosystems)	
12:30	Afternoon break	
18:30	Dinner	

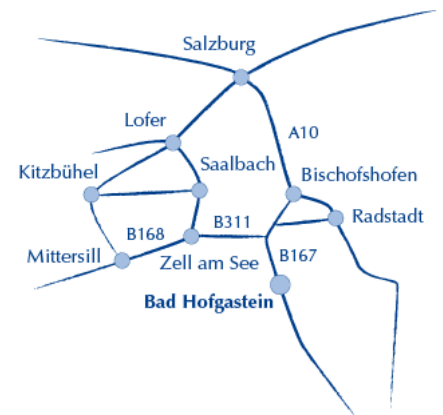
Maps and directions



Coming by train:

The railway station in Bad Hofgastein is a stop for Euro-, InterCity and express trains. The closest loading/unloading point for motorail trains is in Bischofshofen. Luggage transfer and pick-up service is also offered by the local taxi companies.

More on: www.oebb.at



Coming by plane:

The closest airports are Salzburg (SZG) - about 100 km
Munich (MUC) - about 200 km.

Coming by car:

From Salzburg - South on the Tauern Autobahn to Bischofshofen, Gasteinertal exit, then highway B 167 to the Gastein Valley.

From Innsbruck - Autobahn via Wörgl, highway B 312 via St.Johann/Tirol to Lofer, B 311 via Zell am See to Lend, B 167 to Gastein or on the autobahn via Kufstein - Salzburg - Villach, Gasteinertal exit, B 167 to the Gastein Valley.

