

Preliminary Program
International Workshop
on
Contacts in Nanosystems: Interaction, Control, and Quantum Dynamics

Goslar, 20. – 22. 09. 2017
Hotel Hessenkopf: Hessenkopf 5, 38644 Goslar

Wednesday, 20. 09. 2017

13:30 - 14:00	Arrival and coffee
14:00 - 14:15	Opening
14:15 - 15:00	Prof. Hadar Steinberg (Jerusalem) <i>NbSe₂ spectroscopy with van-der-Waals tunnel junctions</i>
15:00 - 15:30	Dr. Johannes Rode (LU Hannover) <i>Twisted Bilayer Graphene from Self-optimized Folding</i>
15:30 - 15:50	Davood Momeni Pakdehi (group H. Schumacher) <i>Large-area graphene for electrical quantum metrology</i>
15:50 - 16:30	Coffee
16:30 – 17:00	Prof. Wolfram Brenig (TU Braunschweig) <i>Thermal transport in emergent Majorana matter</i>
17:00 – 17:20	Benjamin Köhler (group W. Brenig) <i>Control of Magnonic Heat Flow in a Heterostructure</i>
17:20 – 17:40	Bhaskar Singh (group D. Schaadt) <i>Conversion efficiency enhancement in GaAs based Quantum well solar cell: A numerical simulation study</i>
17:40 – 18:00	Waqas Saddique (group W. Daum) <i>Charge transfer analysis across the n-GaP(100) photoanode / electrolyte interfaces</i>
18:30	Dinner
20:00	Get together

Thursday, 21. 09. 2017

09:00 – 09:45	Prof. Carsten Reinhardt (FH Bremen) <i>Phase and Time Resolved Propagation and Interference Switching of Surface Plasmon-Polaritons</i>
09:45 – 10:30	Prof. Ulrich Höfer (Marburg) <i>Ultrafast dynamics of electron transfer processes at model contacts between metals and organic semiconductors</i>
10:30 – 11:00	Coffee
11:00 – 11:20	Savutjan Sidik (group A. Hangleiter) <i>Optical Properties of the AlInN/GaN Heterostructures</i>
11:20 – 11:40	Dennis Mauch (group A. Hangleiter) <i>Electrical und structural properties of thin AlGaIn/GaN heterostructures and Their built-in two-dimensional electron gases</i>
11:40 – 12:10	Gunnar Schneider (LU Hannover) <i>Transport phenomena in double quantum wells</i>
12:10 – 14:00	Lunch break
14:00 – 14:45	Prof. F. Meyer zu Heringdorf (Uni Duisburg-Essen) <i>Ultrafast Dynamics of Surface Plasmon Polaritons</i>
14:45 – 15:05	Zamin Mamiyev (group H. Pfnür) <i>Modification of 1D plasmon properties on Au-Si(hhk) by adsorbates</i>
15:05 – 15:35	Dr. Dirk Wulferding (TU Braunschweig) <i>Characterizing Superconductors via Magnetic Force Microscopy</i>
15:35 – 16:05	Dr. Hakim Meskine (Wiley) <i>A journey through scientific writing and peer-review</i>
16:05 – 16:45	Coffee
16:45 – 17:05	Simon Jahns (group G. Zwicknagl) <i>Towards Renormalized Perturbation Theory for Coupled Quantum Dots</i>
17:05 – 17:25	Johannes Bayer (group R. Haug) <i>Charge Reconfiguration in Arrays of Quantum Dots</i>
17:25 – 17:45	Alexander Schurray (group P. Recher) <i>Transport through networks of Majorana bound states</i>
18:30	Dinner
20:00 – 22:00	Poster session

Friday, 22. 09. 2017

09:00 – 09:45	Prof. Piet Brouwer (FU Berlin) <i>Second Order Topological Insulators</i>
09:45 - 10:05	Daniel Borcharding (group H. Frahm) <i>Signatures of non-Abelian anyons in the thermodynamics of an interacting fermion model</i>
10:05 – 10:25	Jan Bischoff (group E. Jeckelmann) <i>DMRG Method for Conductance of correlated systems in one-dimension</i>
10:30 – 11:00	Coffee
11:00 – 11:30	Youngsu Choi (TU Braunschweig) <i>Raman scattering study of diluted Kitaev magnets</i>
11:30 – 11:50	Pavel Sterin (group M. Oestreich) <i>Beating the Electric Limit: Homodyne Detection for Spin Noise Spectroscopy</i>
11:50 – 12:10	Daria Bezshlyakh (group A. Waag) <i>Towards fabrication of high-precision microlens arrays for LED-based optoelectronic devices</i>
12:15 – 12.30	Closing
12:30 - 13:30	Lunch
13:30 – 14:15	General meeting of graduate school

Poster Session (Thursday 20:00 – 22:00)

- 1 **J. Bayer**, et al. (group R. Haug)
Charge Reconfiguration in Arrays of Quantum Dots
- 2 **D. M. Pakdehi**, et al. (group H. Schumacher)
High quality epitaxial monolayer graphene by polymer-assisted sublimation growth on SiC
- 3 **D. M. Pakdehi**, et al. (group H. Schumacher)
Large-area quasi-free-standing graphene on SiC: improved buffer layer growth by argon flux optimization
- 4 **K. Stempel**, et al. (group A. Waag)
3D GaN fin arrays for vertical field effect transistors
- 5 **D. Borchering**, et al. (group H. Frahm)
Signatures of non-Abelian anyons in the thermodynamics of an interacting fermion model
- 6 **J. Rode**, et al. (group R. Haug)
Energetic Balance in the Morphology of Folded Graphene Ribbons
- 7 **L. Bo**, et al. (group P. Lemmens)
Metrological Aspects of Raman scattering
- 8 **N. Casper**, et al. (group W. Brenig)
Quantum Monte Carlo Studies of Quantum Spin Systems
- 9 **W. Saddique**, et al. (group W. Daum)
Charge transfer analysis across the n-GaP(100) photoanode / electrolyte interfaces
- 10 **Z. Mamiyev**, et al. (group H. Pfnür)
Modification of 1D plasmon properties on Au-Si(hhk) by adsorbates
- 11 **C. Belke**, et al. (group R. Haug)
Investigation of Thin Films of ZrS₃
- 12 **T. Wagner**, et al. (group R. Haug)
Waiting Times in Feedback Controlled and Driven Single-Electron Tunneling