

Workshop of
School for Contacts in Nanosystems:
Interaction, Control, and Quantum Dynamics

Leibniz Universität Hannover, 17. 2. 2015

LNQE Building, Schneiderberg 39, 30167 Hannover

9:30 - 10:00	Coffee
10:00 - 10:15	Opening
10:15 - 10:30 Mauch (TUBS)	<i>Resonant tunneling in group III-nitrides: State of the art and ideas</i>
10:30 - 10:45 Jahns (TUBS)	<i>Renormalized perturbation theory and transport through quantum dots in the Kondo regime</i>
10:45 - 11:00 Bayer (LUH)	<i>Transport through single up to quadruple quantum dots</i>
11:00 - 11:15 Schuray (TUBS)	<i>Electron transport through systems containing multiple Majorana bound states</i>
11:15 - 11:30 Borcherding (LUH)	<i>Non-abelian quasi particles in electronic systems</i>
11:30 - 12:00	Posters and Coffee
12:00 - 12:15 Singh (TUC)	<i>Solar cells based on III/V heterostructures</i>
12:15 - 12:30 Bezshlyak (TUBS)	<i>Below 1 micron superresolution with nanoLEDs</i>
12:30 - 12:45 Saddique (TUC)	<i>Electrochemical nanocontacts of semiconductors: Surface corrosion inhibition</i>
12:45 - 13:00 Sterin (LUH)	<i>High precision Stokes polarimetry & nuclear spin noise in GaAs</i>
13:00 - 13:30	General Assembly
13:30 - 14:30	Lunch
14:30 - 15:00	Posters and Coffee
15:00 - 15:15 Bischoff (LUH)	<i>Quantum transport and spectral properties of ultrathin nanowires</i>
15:15 - 15:30 Mamiyev (LUH)	<i>Plasmonic excitations in quasi-1d Au atomic wires</i>
15:30 - 15:45 Köhler (TUBS)	<i>Field control of magnetic heat flow</i>
15:45 - 16:00 Sidik (TUBS)	<i>Phonons as a local probe of electronic polarizability</i>
16:00 - 16:15 Pakdehi (PTB)	<i>Expitaxial graphene growth on 4H- and 6H-SiC</i>
16:15 - 16:30	Closing

Posters:

- *About the origin of 1D metallicity in Ag monolayer stripes on Si(557)*, Timo Lichtenstein, Ulrich Krieg, Christian Brand, Christoph Tegenkamp, and Herbert Pfnür
- *Quasi-1D plasmons in Au-induced quantum wires on Si(hhk)*, Timo Lichtenstein, Zamin Mamiyev, Christoph Tegenkamp, and Herbert Pfnür
- *Suppression of decoherence in a graphene monolayer ring*, D. Smirnov, J. Rode, R.J. Haug
- *Coupled/ Decoupled Transition in a Twisted Graphene Bilayer*, J. C. Rode, D. Smirnov, C. Belke, H. Schmidt and R. J. Haug
- *Novel approaches towards highly selective self-powered gas sensors*, A. Gad
- *LED based Optosensor Platforms*, Nico Markiewicz
- *Insights into interfacial changes and photoelectrochemical stability of $\text{In}_x\text{Ga}_{1-x}\text{N}$ (0001) photoanode surfaces in liquid environments*, Lorenzo Caccamo, Giulio Cocco, Gemma Martín, Hao Zhou, Sönke Fundling, Alaaeldin Gad, Matin Sadat Mohajerani, Mahmoud Abdelfatah, Sonia Estradé, Francesca Peiró, Wanja Dziony, Heiko Bremers, Andreas Hangleiter, Leonhard Mayrhofer, Gerhard Lilienkamp, Michael Moseler, Winfried Daum and Andreas Waag
- *Surfactant assisted epitaxial graphene growth on 6H-SiC(0001)*, Klaus Pierz
- *Feedback control of single-electron tunneling in a quantum dot*, T. Wagner, J. Bayer, E. Rugeramigabo, and R.J. Haug
- *Influence of quantum Hall edge-states on the Kondo screening of a quantum dot*, A.W. Heine, G. Zwicknagl, D. Tutuc, and R.J. Haug
- *Low Magnetic Field Wavelength Modulation Absorption Spectroscopy of Donor Bound Excitons in 28Si:P*, M. Beck, H. Riemann, J. Hübner, and M. Oestreich
- *Spin Noise Spectroscopy on Single InAs Quantum Dots*
J. Wiegand, R. Dahbashi, K. Pierz, J. Hübner, and M. Oestreich