

NTH Workshop

Contacts in Nanosystems: Interactions, Control, and Quantum Dynamics

TU Clausthal, 30.09.2014

Kleiner Physik-Hörsaal, Leibnizstr. 4, 38678 Clausthal-Zellerfeld

09:00 Bus transfer from Goslar train station to TU Clausthal

09:30 – 10:00 Coffee

10:00 – 10:05 Opening

- 10:05 – 10:25 Silvestrov *Wigner Crystal in bilayer graphene*
- 10:25 – 10:45 Rode *Superlattice effects in folded graphene*
- 10:45 – 11:05 Sharafeev *Raman scattering on the doped charge density wave of $PbTaSe_2$*
- 11:05 – 11:25 Hohls *Partitioning of on-demand electron pairs*
- 11:25 – 12:30 Posters See reverse side for titles and presenting authors
In parallel: PI's discussion meeting
- 12:30 – 13:30 Lunch
- 13:30 – 14:00 Posters
- 14:00 – 14:20 Bockhorn *Negative magnetoresistance induced by rare strong scatterers*
- 14:20 – 14:40 Park *Majorana bound states in Corbino-geometry topological insulator Josephson junction*
- 14:40 – 15:00 Hein *Growth and characterization of GaN quantum dots on AlN*
- 15:00 – 15:20 Borckenhagen *Thermal decomposition of GaP and formation of Ga droplets*
- 15:20 – 16:00 Coffee & Posters
- 16:00 – 16:20 Shen *Novel nanosensors for gas detection: Proof of concept*
- 16:20 – 16:40 Häberle *Dynamical behavior of steps on well-oriented Si(100) during submonolayer deposition of gallium*
- 16:40 – 17:00 Lemmens *Preparation of self-organised nanostructures using electrochemical techniques*
- 17:00 Closing
- 17:20 Bus transfer from Clausthal to Goslar train station

Poster Contributions

Bayer, Johannes	<i>Transport through triple and quadruple dots</i>
Busse, Felix	<i>Exciton condensate in bilayer electron systems</i>
Häberle, Michael	<i>Towards single-domain Si(100) for III-V heteroepitaxy without anti-phase disorder: Ga-induced step dynamics of Si</i>
Heine, Alexander	<i>Kondo resonance of a quantum dot in magnetic fields</i>
Kotzian, Monika	<i>Two-path transport measurements on a triple quantum dot</i>
Kuhn, Hendrik	<i>Optical determination of spin dynamics in distinct nanostructures</i>
Meyer, Christian J.	<i>Plasmonic solar cells</i>
Petreska, Dr. Irina	<i>To be announced</i>
Probst, Benedikt	<i>Controlling spin polarization of a quantum dot via a helical edge state</i>
Schroer, Alexander	<i>Detection of spin entanglement via spin-charge separation in crossed Tomonaga-Luttinger liquids</i>
Smirnov, Dimitri	<i>Suppression of decoherence in a graphene ring</i>
Stallberg, Klaus	<i>Multi-photon photoelectron microscopy of porphyrin molecules on plasmonic Ag nanostructures</i>
Weithofer, Luzie	<i>Electron transport in multiterminal network of Majorana bound states</i>
Wang, Xiaodan	<i>Black TiO₂ for highly efficient water splitting</i>