

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

Leibniz Universität Hannover, 15. 6. 2016
 LNQE Building, Schneiderberg 39, 30167 Hannover

- 9:30 - 10:00 Coffee
- 10:00 - 10:45 **Holger Frahm (LUH) - Tutorial -**
 Non-Abelian Anyons
- 10:50 - 11:05 **Klaus Stallberg (TUC - Daum)**
 Surface Plasmons and Plasmon Dispersion of Porphyrin-Covered Ag
- 11:10 - 11:25 **Jens Hübner (LUH - Oestreich)**
 Interplay of Electron and Nuclear Spin Noise in n-Type GaAs
- 11:30 - 12:00 Posters and Coffee
- 12:00 - 12:15 **Nicolai Markiewicz (TUBS - Waag)**
 LED Based Optosensor Platforms
- 12:20 - 12:35 **Alexander Schroer (TUBS - Recher)**
 Valley-Based Cooper Pair Splitting via Topologically Confined Channels
 in Bilayer Graphene
- 12:40 - 12:55 **Dmitri Smirnov (LUH - Haug)**
 Aharonov-Bohm Effect and Anti-Klein Tunneling in Bilayer Graphene
- 13:00 - 14:00 Lunch
- 14:00 - 14:30 Posters and Coffee
- 14:30 - 14:55 **Andreas Hangleiter (TUBS)**
 Nanostructures Based on Wide-Gap Semiconductors
- 15:00 - 15:15 **Benedikt Probst (TUBS - Recher)**
 Signatures of Nonlocal Cooper Pair Transport in the Critical Current
 of a Double-Quantum-Dot Josephson Junction
- 15:20 - 15:35 **Simon Jahns (TUBS - Zwicknagl)**
 Renormalized Perturbation Theory for the Anderson Model:
 An Efficient Impurity Solver
- 15:40 - 16:10 Posters and Coffee
- 16:10 - 16:25 **Peter Lemmens (TUBS)**
 Raman Scattering of Weyl Semimetals
- 16:30 - 16:45 **Anas Abdelwahab (LUH - Jeckelmann)**
 Quantum Metallic Wire Coupled to an Environment
- 16:50 - 17:05 **Timo Lichtenstein (LUH - Pfnür)**
 Plasmons in Low Dimensional Systems
- 17:10 - 17:25 **Alexandros Metavitsiadis (TUBS - Brenig)**
 Thermal Transport in Kitaev-Heisenberg Ladders
- 17:30 Closing

Posters:

- **Johannes Bayer**
Charge trapping in double and triple quantum dot systems
- **Daria Bezshlyakh** , Cellphone-based blood analysis
- **Jan Bischoff**
Electron Current in a one-dimensional quantum wire as linear response to an external field
- **Daniel Borcharding**
Non-Abelian quasi-particles in electronic systems
- **Yasemin Ergün**
Ginzburg-Landau and Langevin theory for collective excitations in In/Si(111)
- **Benjamin Köhler** , Field Control of magnetic Heat Flow
- **Zamin Mamiyev**
Plasmonic excitations in quasi-1D Si(553)-Au
- **Dennis Mauch**
Two-dimensional electron gases induced by spontaneous and piezoelectric polarization in AlGaN/GaN heterostructures
- **H. Minh Nguyen, Vasut Nakarajouyphon, Sergey Zhuravkov, Tchaikovski Kazimirovich, Preeyanuch Sangtrirutnugul, and Thammasit Vongsetskul**,
Preparation of copper nanopowder and its application in organic chemistry
- **Waqas Saddique**
Formation of a stable surface oxide on n-GaP (100) photo anodes for increased durability in photo electrochemical system
- **Alexander Schuray**
Fano Resonances in Majorana Bound State - Quantum Dot Systems
- **Savutjan Sidik**
Hierarchically branched TiO₂/SnO₂ nanofibers as high performance anodes for lithium-ion batteries
- **Bhaskar Singh**
GaAs based Solar Cell for efficiency enhancement
- **Pavel Sterin**
Interaction of few-spin systems with their environment