



POLISH-GERMAN WORKSHOP ON THE OPTICAL PROPERTIES OF NANOSTRUCTURES

Wrocław, 14–16 February 2011

Workshop program

[Tentative programme for download](#)

[\(with time schedule. as of 11.02.2011\)](#)

Keynote and invited talks

Martin Axt, Universität Bayreuth

Unusual optical properties of narrow gap magnetic semiconductors

Manfred Bayer, Technische Universität Dortmund

Coherent optical control of spins in quantum dots

Markus Betz, Technische Universität Dortmund

Ultrafast few-fermion dynamics in single self-assembled quantum dots and dot molecules

Rudolf Bratschitsch, Technische Universität Chemnitz

Solid-state nanosystems for ultrafast semiconductor quantum optics

Irene D'Amico, University of York

Suppression of dephasing for an excitonic qubit via dynamical decoupling protocols

Alfred Forchel, Universität Würzburg

Tailoring light-matter interaction for nanophotonic devices

Anna Grodecka-Grad, University of Copenhagen – NBI

Decoherence channels of charge and spin qubits in quantum dots

Paweł Hawrylak, NRC Institute for Microstructural Sciences, Ottawa

Optical properties of graphene quantum dots

Sven Höfling, Universität Würzburg

Microcavity exciton-polariton condensates

Włodzimierz Jaskólski, Uniwersytet Mikołaja Kopernika, Toruń

Edge states and flat bands of graphene nanoribbons with arbitrary shape

Andreas Knorr, Technische Universität Berlin

Theory of ultrafast carrier and phonon dynamics in graphene

Tobias Korn, Universität Regensburg

Electron and hole spin dynamics in semiconductor heterostructures

Piotr Kossacki, Uniwersytet Warszawski

Single dot spectroscopy of CdTe based self organized system

Stephan Reitzenstein, Universität Würzburg

Cavity Quantum Electrodynamics in Quantum Dot – Micropillar Cavities – Fundamental Research and Applications

Bartłomiej Szafran, AGH Kraków

Magnetic forces and Aharonov-Bohm oscillations in semiconductor quantum rings

Alexei Vagov, Universität Bayreuth

Superconductivity in nano wires - influence of geometrical quantization.

Elżbieta Zipper, Uniwersytet Śląski

Quantum computing with quantum rings

Contributed presentations

Mateusz Bański, Politechnika Wrocławska

Investigation on lanthanides doped β -NaYF₄ nanocrystals - synthesis and optical characterization

Michał Baranowski, Politechnika Wrocławska

Investigation of photoluminescence dynamics in type II GaAs/GaAsSb double quantum well

- Leszek Bryja**, Politechnika Wroclawska
Cyclotron-Assisted Resonant Exciton Exchange Between Nearly-Free and Acceptor-Bound States of a Positive Trion
- Jonas Daniels**, Westfälische Wilhelms-Universität Münster
Squeezing of lattice displacement due to anharmonic decay of phonons in a semiconductor quantum dot
- Matthias-Rene Dachner**, Technische Universität Berlin
The impact of phonon-assisted capturing on entangled light emission of semiconductor quantum dots
- Krzysztof Gawarecki**, Politechnika Wroclawska
Phonon-assisted tunneling in double quantum dots
- Martin Gläbli**, Universität Bayreuth
Real time path integrals for the dynamics of strongly confined quantum dots
- Mateusz Goryca**, Uniwersytet Warszawski
Brightening of dark excitons in a single CdTe quantum dot containing a single magnetic Mn²⁺ ion
- Jan Huneke**, Westfälische Wilhelms-Universität Münster
The impact of Coulomb correlations on single dot pump-probe spectra
- Julian Hüser**, Westfälische Wilhelms-Universität Münster
Higher-order corrections to the magnon dispersion in the Heisenberg model
- Joanna Jadczak**, Politechnika Wroclawska
Cyclotron-assisted exciton hopping between free and acceptor-bound trions observed in magneto-photoluminescence of a two-dimensional hole gas
- Tomasz Jakubczyk**, Uniwersytet Warszawski
Investigation of light-matter interaction in ZnTe-based photonic structures
- Filip Janiak**, Politechnika Wroclawska
Optical properties of type II "W-shaped" quantum wells based on GaSb emitting in the mid infrared spectral range
- Piotr Kaczmarkiewicz**, Politechnika Wroclawska
The effect of confinement and trapping on the optical properties of semiconductor quantum dashes
- Tomasz Kazimierczuk**, Uniwersytet Warszawski
Experimental identification of emission lines in CdTe-based quantum dots
- Christopher Köhler**, Technische Universität Berlin
Theory of temporally resolved electron-phonon intersubband relaxation dynamics in carbon nanotubes
- Paweł Karwat**, Politechnika Wroclawska
The role of phonon-induced dephasing in the spontaneous emission from double quantum dots
- Kamil Korzekwa**, Politechnika Wroclawska
Theory of Kerr rotation and resonant spin amplification in p-doped nanostructures
- Piotr Kowalski**, Politechnika Wroclawska
Multiple exciton generation in nanocrystals
- Marcin Kurpas**, Uniwersytet Śląski
Instantaneous entanglement of qubits
- Magdalena Latkowska**, Politechnika Wroclawska
Thermal quenching of individual exciton lines in GalnNAs measured by micro-photoluminescence experiment
- Łukasz Marcinowski**, Politechnika Wroclawska
Modeling of the measurement of charge and spin states in QDs with quantum point contacts
- Anna Musiał**, Politechnika Wroclawska
Microphotoluminescence of nanostructures with high lateral aspect ratio
- Wojciech Pacuski**, Uniwersytet Warszawski
ZnTe-based photonic structures with quantum dots
- Thomas Papenkort**, Westfälische Wilhelms-Universität Münster
Generation of coherent and incoherent phonons in an optically driven biased quantum well
- Paweł Potasz**, Politechnika Wroclawska
Electronic and Magnetic properties of triangular graphene quantum rings
- Maxim Raskin**, Technische Universität Chemnitz
Ultrafast spin dynamics in wide bandgap magnetic semiconductors
- Doris Reiter**, Westfälische Wilhelms-Universität Münster
Ultrafast spin manipulation in a Mn doped quantum dot
- Claudia Ruppert**, Technische Universität Dortmund
Coherent control of electrical currents in single semiconductor nanowires
- Robert Schmidt**, Technische Universität Chemnitz
New Approach to Photoluminescence Intermittency: Luminescence Intensity-resolved Investigation

of CdSe/ZnS Quantum Dots

Grzegorz Sęk, Politechnika Wroclawska

Polarization properties of the emission from strongly in-plane asymmetric epitaxial nanostructures

Anna Sitek, Politechnika Wroclawska

Phonon impact on collective effects in double quantum dots

Marcin Syperek, Politechnika Wroclawska

Photoluminescence dynamics in coupled (In,Ga)As/GaAs quantum well-quantum dots system

Grzegorz Zatoryb, Politechnika Wroclawska

Time resolved spectroscopy of silicon nanocrystals

Michał Zieliński, Uniwersytet Mikołaja Kopernika, Toruń

Atomistic theory of optical properties of self-assembled InAs/InP quantum dots

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