

Poster Session II - Thursday 29 April - 17:30 – 19:00

- P.01 **Electron g-factor Distribution in Quantum Dots**
Weidong Sheng, Fudan University
- P.02 **Long time of exciton spin relaxation in InAs/AlAs QDs**
Timur S Shamirzaev, Institute of Semiconductor Physics
- P.03 **Probing of Hybridized Wavefunctions in Pyramidal Quantum Dot Molecules**
Qing Zhu, Ecole Polytechnique Fédérale de Lausanne
- P.04 **The different regimes of CQED with quantum dots: influence of pumping and detuning on photon emission**
Guillaume Tarel, Institute of Theoretical Physics, EPFL Lausanne
- P.05 **Photo-induced conductance fluctuations in mesoscopic Ge/Si quantum dot systems**
Natalya Stepina, Institute of Semiconductor Physics SB RAS
- P.06 **Electrical control of the exciton spin in nitride semiconductor quantum dots**
Mathieu Senes, sharp laboratories of europe
- P.07 **Origin of the non-resonant quantum dot-cavity coupling**
Nicolas Chauvin, Eindhoven University of Technology
- P.08 **Electron capture and intraband relaxation by means of Auger processes in colloidal semiconductor nanocrystals**
Arshak Vartanian, Yerevan State University
- P.09 **Theory of phonon-assisted relaxation and its impact on entanglement in QD systems**
Matthias-Rene Dachner, Technische Universität Berlin
- P.10 **Phonon-mediated relaxation in doped quantum dot molecules**
Anna Grodecka-Grad, University of Paderborn
- P.11 **Coupled semiconductor quantum dots in tilted magnetic field**
Orion Ciftja, Prairie View A&M University
- P.12 **Optical two-dimensional Fourier-transform spectra of a GaAs interfacial quantum dot ensemble**
Alan Bristow, National Institute of Standards and Technology and University of Colorado
- P.13 **Effect of magnetic field on optical anisotropy of CdZnSe quantum dots**
Jitendra Kumar, Indian School of Mines
- P.14 **Tunable magnetism in quantum rings**
Ari Harju, Helsinki Univ. of Tech.
- P.15 **Tailoring the Spin Accumulation Effect in semiconductor nanorings**
María José Sánchez, Centro Atómico Bariloche and Instituto Balseiro
- P.16 **Temperature dependence of the emission spectra of individual self-assembled quantum dots**
Anna Zora, University of Athens
- P.17 **Energy transfer dynamics between CdSe/ZnS quantum dots**
DaeGwi Kim, Osaka City University
- P.18 **Efficient Carrier Multiplication in PbS Colloidal Quantum Dots Synthesised by Environmentally Benign Methods**
David Binks, University of Manchester
- P.19 **Explanation of photon correlations in the far-off-resonance optical emission from a quantum-dot cavity system**
Thomas Volz, ETH Zurich
- P.20 **Multiexciton Dynamics in Type II CdSe/CdTe/CdS Core/Shell/Shell Colloidal Quantum Dots**
David Binks, University of Manchester
- P.21 **Design of columnar quantum dots for polarization-independent emission using the 8-band k-p method**
Janusz Andrzejewski, Institute of Physics, Wroclaw University of Technology
- P.22 **Cavity-QED with semiconductor quantum dots: The role of phonon-assisted cavity feeding**
Ulrich Hohenester, KFU Graz
- P.23 **Phonon Coupling to Exciton Complexes in Single InGaAs/AlGaAs Quantum Dots**
Daniel Dufåker, Linköping University
- P.24 **Subnanosecond spectral diffusion of a single quantum dot in a nanowire**
Jean-Philippe Poizat, Institut Néel - CNRS / Université de Grenoble

- P.25 **Continuous-wave vs time resolved measurements of Purcell factors for quantum dots in semiconductor microcavities**
Jean-Philippe Poizat, Institut Néel - CNRS / Université de Grenoble
- P.26 **Theoretical aspects of the photoluminescence of silicon nanocrystals embedded in wideband dielectric films**
Vladimir Belyakov, University of Nizhny Novgorod
- P.27 **Creating quantum dots by charge density fluctuations**
Alexander Balanov, Loughborough University
- P.28 **Semi-Analytic approach to scattering on quantum dot**
Malcolm Brown, Cardiff University
- P.29 **Tuning exciton fine structure and controlling exciton phase**
Garnett Bryant, National Institute of Standards and Technology
- P.30 **Low Temperature Scanning Near-Field Optical Microscopy of InAs Quantum Dots in Photonic Crystal Cavities**
Matthias Skacel, Technische Universiteit Eindhoven
- P.31 **Quantum Hall regime in emission spectra of single self-organized InP/GaInP quantum dots**
Alexander Mintairov, University of Notre Dame
- P.32 **Non-exponential kinetics of photoluminescence from CdS quantum dots formed by Langmuir-Blodgett technique**
Konstantin Zhuravlev, Institute of Semiconductor Physics
- P.33 **Exciton spin dynamics in InAs/GaAs quantum dots**
Juan Ignacio Climente, Universitat Jaume I
- P.34 **Photoluminescence of trions in quantum dots: the role of correlations in the valence band**
Juan Ignacio Climente, Universitat Jaume I
- P.35 **Temperature stable positive magnetic susceptibility of semiconductor wobbled nano rings**
Oleksandr Voskoboynikov, National Chiao Tung University
- P.36 **Capacitance-voltage spectroscopy on InAs quantum dot valence band states in tilted magnetic fields**
Dirk Reuter, Ruhr-Universität Bochum
- P.37 **Electron-hole complexes in semiconductor nanorods**
Miquel Royo, Universitat Jaume I
- P.38 **Dipole-like single photon emission from a colloidal dot in rod**
Ferruccio Pisanello, Université Pierre et Marie Curie (UPMC)
- P.39 **Photoluminescence of near-surface In(Ga)As quantum dots**
Paola Atkinson, Institute for Integrative Nanosciences, IFW Dresden
- P.40 **Excitonic vs. Free Carrier Optical Spin Injection Efficiency in Novel InAs Quantum Dot Structures**
Jan Beyer, Linköping university
- P.41 **Coherent manipulation of the phase of an exciton in a single quantum dot via the AC-Stark effect**
Simon Gordon, Universität Paderborn
- P.42 **Modulation bandwidth and effective carrier lifetime of colloidal quantum-dot nanocomposites**
Nicolas Laurand, Institute of Photonics, University of Strathclyde
- P.43 **Resonance effects in Raman scattering of quantum dots formed by the Langmuir-Blodgett method**
Alexander Milekhin, Institute of Semiconductor Physics
- P.44 **Coherent spin relaxation dynamics of positive trions in p-doped InAs/GaAs quantum dots**
Gaby Slavcheva, Imperial College London
- P.45 **Rate equation analysis of quantum dot population in InAs/GaAs laser structures**
Ian O'Driscoll, Cardiff University
- P.46 **Optoelectronic properties of nanoparticle arrays**
Alexander Holleitner, Technische Universität München, Germany
- P.47 **Size-dependent magneto-optic and transient optical properties of self-assembled InAs/GaAs quantum dots**
Tom Campbell Ricketts, Eindhoven University of Technology
- P.48 **Effect of Electronic and Optical Properties of Quantum Dots on Hydrogenation of Conjugated Functional Groups**

Mariam Ahmed, Newcastle University

- P.49 **A Quantum Dot Based Photon-Spin Quantum Interface**
Ruth Oulton, University of Bristol
- P.50 **Energy transfer in CdSe/ZnSe double layers of quantum dots**
Sergei Permogorov, A. F. Ioffe Physical-Technical Institute RAS
- P.51 **Dependence of Förster coupling on a magnetic field in quantum dot system**
Ameenah Al-Ahmadi, Umm Al-Qura University
- P.52 **Tunnel injection system based on InGaAs/GaAs quantum dots: optical properties and energy structure**
Wojciech Rudno-Rudziński, Wrocław University of Technology
- P.53 **Estimation of the location of embedded InGaAs/GaAs quantum dots by measuring the photoluminescence under nanoprobe indentation**
Yoshio Arai, Saitama University
- P.54 **Electron spin relaxation by nuclei and holes in single InAs quantum dots**
Baoquan Sun, Chinese Academy of Sciences
- P.55 **Low-lying states of exciton in type II quantum dot with ring-like geometry**
José Sierra-Ortega, Universidad del Magdalena
- P.56 **Terabit rate all-optical phase modulation and dynamics of spin-based dichroism in nanocrystal quantum dots**
Kwangseuk Kyhm, Pusan National University
- P.57 **Strong optical Kerr gate signal in InAs-dot-buried GaAs/AlAs multilayer cavity using a picosecond laser pulse**
Ken Morita, The University of Tokushima
- P.58 **Resonant tunnelling between a self-assembled InAs quantum dot and an electrically-defined InGaAs quantum dot**
Tetsuo Kodera, Tokyo Institute of Technology
- P.59 **Photoexcited charge sensitivity and stability of self-assembled InAs quantum dots coupled to nanogap electrodes**
Kenji Shibata, Institute of Industrial Science, University of Tokyo
- P.60 **Fine structure splitting reduction in droplet epitaxy GaAs quantum dots grown on (111)A surface**
Marco Abbarchi, NIMS
- P.61 **Tunable exciton g-factor in height and composition engineered quantum dots**
Vase Jovanov, Walter Schottky Institut, TU Muenchen
- P.62 **Binding energy study in GaAs/AlGaAs self assembled quantum dot grown by droplet epitaxy**
Marco Abbarchi, NIMS
- P.63 **Resonant coupling of quantum dot intersublevel transitions with two-dimensional photonic crystals**
Philippe Boucaud, IEF-CNRS
- P.64 **Manipulation of Spin Distribution in a DMS Hybrid-Double-Quantum-Disk Structure**
Heesang Kim, Soongsil University
- P.65 **Evidence of correlated electron hole pair in dot in asymmetric quantum well structure**
Mohamed Abdellatif, KIST, Korea institute of science and technology
- P.66 **Evidence for heavy hole – light hole coupling in strain free GaAs dots: impact on optical selection rules**
Thomas Belhadj, Université de Toulouse -LPCNO
- P.67 **All optical control of exciton polarization eigenstates: interplay between Coulomb exchange and nuclear spin effects**
Bernhard Urbaszek, Université de Toulouse -LPCNO
- P.68 **Optical mapping and electrical manipulation of spin states in quantum dots containing magnetic ions**
X.j Li, School of Physics and Opto-Electronics Technology
- P.69 **Magneto-optical cavity quantum electrodynamics effects in quantum dot micropillar systems**
Stephan Reitzenstein, Technische Physik, University of Würzburg
- P.70 **Probing hole spin coherence in a quantum dot**
J. Houel, University of Basel
- P.71 **Sharp entanglement variations in quantum dots**

- P.72 **Spin dynamics in two-dimensional arrays of quantum dots with different shapes**
Aigul Zinovieva, Institute of Semiconductor Physics
- P.73 **Time-resolved investigations of non-equilibrium states in quantum dots**
Martin Geller, University of Duisburg-Essen
- P.74 **Decoherence of a resonantly driven exciton in a single quantum dot**
Valia Voliotis, INSP
- P.75 **Resonant fluorescence of the neutral and charged excitons in a single quantum dot**
Carole Diederichs, Laboratoire Pierre Aigrain - Ecole Normale Supérieure
- P.76 **Electrical spin injection and ultrafast charging of single InAs quantum dots**
Joerg Nannen, University of Duisburg-Essen
- P.77 **Variational Quantum Monte Carlo calculations for interacting two particles in parabolic quantum dots**
Aylin Yildiz, Dokuz Eylul University
- P.78 **Excitonic complexes in GaAs-based quantum dash structures**
Anna Musiał, Institute of Physics, Wrocław University of Technology
- P.79 **Energy relaxation via non Gamma-point phonons by complete k-vector conservation violation in epitaxial CdSe/ZnSe quantum dots**
Tobias Kiessling, Physikalisches Institut, Universität Würzburg
- P.80 **Time-resolved Hanle effect in (In,Ga)As/GaAs quantum dots**
Roman Cherbunin, Saint-Petersburg State University
- P.81 **Carrier dynamics in self-assembled quantum dots for intersublevel transitions in the terahertz range**
Thomas Grange, Walter Schottky Institut
- P.82 **Extended excitons and compact biexcitons in type-II quantum dots**
Bhavtosh Bansal, Catholic University Leuven
- P.83 **Photoluminescence and photoexcitation transport in a quantum-dot system formed by amorphous Si nanoclusters embedded within a silicon nitride matrix**
Victor Stuchinsky, Institute of Semiconductor Physics, Russian Academy of Science,
- P.84 **Photothermal nanoscopy of S-P far-infrared absorption of single InAs/GaAs quantum dots**
Sebastien Sauvage, CNRS
- P.85 **InAs quantum dots embedded in ideal photonic molecules**
Massimo Gurioli, University of Florence
- P.86 **A new insight on laser threshold in devices operating at nanoscale**
Alexios Beveratos, LPN-CNRS
- P.87 **Towards a deterministic entangled and single photon source at telecommunication wavelength using InAsP/InP quantum dots**
Alexios Beveratos, LPN-CNRS
- P.88 **Dynamical nuclear polarization and nuclear magnetic resonance in a (In,Ga)As quantum dot ensemble**
Karl Flisinski, Technische Universität Dortmund
- P.89 **Spin dynamics in n-doped InGaAs quantum dot ensembles**
Jayeeta Bhattacharyya, Institute of Ion Beam Physics and Materials Research, FZD-Rossendorf
- P.90 **Non-resonant feeding of photonic crystal nanocavity modes by quantum dot multi-exciton states**
Michael Kaniber, Walter Schottky Institut, TU München
- P.91 **Theory of exciton fine structure in semiconductor quantum dots: atomistic structure, anisotropy and lateral electric field**
Michał Zieliński, Instytut Fizyki UMK
- P.92 **Electric field dependence of the emission of single InGaAs/GaAs quantum dots and pairs grown by droplet epitaxy**
Benito Alén, Instituto de Microelectrónica de Madrid, IMM-CSIC
- P.93 **Influence of the donor concentration on Förster resonant energy transfer between donor / acceptor quantum dot layers**
Manuela Lunz, Trinity College Dublin
- P.94 **Experimental investigation and modeling of the fine structure splitting of neutral excitons in**

strain-free GaAs/AlGaAs quantum dots

Johannes D. Plumhof, Institute for Integrative Nanosciences, IFW Dresden

- P.95 **Optical control of electron spins in a singly charged InGaAs/GaAs quantum dot ensemble**
Stefan Spatzek, TU Dortmund
- P.96 **Emission dynamics of GaP/InGaP core/shell nano-wires grown on silicon substrate**
Nicola Pavarelli, Tyndall National Institute
- P.97 **Robust Magnetic Polarons in Type-II Quantum Dots**
Athos Petrou, University at Buffalo SUNY
- P.98 **Triggered high fidelity hole spin initialisation and precession in an InAs quantum dot**
Tim Godden, University of Sheffield
- P.99 **Strong spontaneous emission inhibition for quantum dots in photonic wires**
Joel Bleuse, CEA - Grenoble
- P.100 **Photoluminescence spectroscopy of p-doped semimagnetic self-assembled quantum dots**
Lukasz Klopotoski, Institute of Physics, Polish Academy of Sciences
- P.101 **Radiative recombination dynamics of CdSe/Zn(S,Se)/MgS quantum dots up to room temperature**
Tilmar Kümmell, University Duisburg-Essen
- P.102 **Spin Blockaded Radiative Cascades in Neutral Quantum Dots**
Eilon Poem, Technion - Israel Institute of Technology
- P.103 **Atomistic theory of multi-exciton complexes in CdSe nanocrystals**
Oleksandr Voznyy, Institute for Microstructural Sciences, National Research Council
- P.104 **Spin-flip Raman scattering in InGaAs/GaAs quantum dots**
Jörg Debus, Technische Universität Dortmund
- P.105 **Coupling a single quantum dot to a micromirror-based microcavity**
Andreas Muller, Joint Quantum Institute, NIST and University of Maryland
- P.106 **Optical control of photon-pair entanglement in a semiconductor quantum dot**
Andreas Muller, Joint Quantum Institute, NIST and University of Maryland
- P.107 **Fine structure of a triexciton in a single quantum dot**
Adam Babinski, University of Warsaw
- P.108 **Fine structure splitting in InGaAs Pyramidal Quantum Dots with GaAs barriers**
Lorenzo Mereni, Tyndall National Institute
- P.109 **3D g-factor mapping: single quantum emitters in full view**
Matthias Ediger, University of Cambridge
- P.110 **Direct observation of the two Lowest Exciton Zero-Phonon Lines in Single CdSe/ZnS Nanocrystals**
Yann Louyer, Université de Bordeaux
- P.111 **Methods for the realization of polarized light emission from CdSe/ZnSSe quantum dot monolithic pillar microcavities**
Moritz Seyfried, Institute of Solid State Physics, University of Bremen
- P.112 **Optical spin filter effect in InAs/GaAs QDs**
Matthew Taylor, Imperial College London
- P.113 **Bose-Einstein Condensation in a coupled microcavity-quantum dot system**
Isobel Piper, University of Cambridge
- P.114 **Theory and detailed spectroscopy of high-symmetry quantum dots: Effects of symmetry elevation and breaking**
Daniel Oberli, EPFL
- P.115 **Picosecond charge state dynamics in CdTe/ZnTe quantum dots under non-resonant excitation**
Tomasz Kazimierczuk, University of Warsaw