

Poster Session I - Tuesday 27 April - 17:30 – 19:00

- P.01 **Multi-Exciton Interaction in a Regime of Strong Quantum Confinement**
Juleon Schins, Delft University of Technology
- P.02 **Transport of Charge Between Zero-Dimensional Nanostructures**
Karel Kral, Inst. Phys. of Acad. Sci. of Czech Republic
- P.03 **Negative transverse magnetoresistance of the two-dimensional electron gas in quantum well with parabolic confinement potential under an in-plane magnetic field**
Firudin Hashimzade, Institute of Physics of ANAS
- P.04 **enhancement and quenching regimes in the coupling of quantum dots to plasmonic nanoparticles**
Pierre-michel Adam, LNIO/ICD UTT
- P.05 **Hydrostatic pressure effects on the State Density and Optical transitions in quantum dots**
Gustavo Galindez, Univesidad del Cauca
- P.06 **Modification of optical properties at the bioconjugation of core-shell CdSe/ZnS quantum dots**
Tetyana Torchynska, ESFM-National Polytechnic Institute
- P.07 **Single quantum dot transistor coupled with plasmonic antenna for sensitive photon detection**
Zhenghua An, Fudan University
- P.08 **Bandstructures of Quantum Dots and Coupled Thermo-electromechanical Phenomena**
Roderick Melnik, M2NeT Lab, Wilfrid Laurier University
- P.09 **Plasmon-Phonon coupling in the quasi-two-dimensional electron systems with spin-orbit interaction**
Karen Vardanyan, Yerevan State University
- P.10 **Magnetothermoelectric effects of 2D electron gas in quantum well with parabolic confinement potential in-plane magnetic field**
Firudin Hashimzade, Institute of Physics of ANAS
- P.11 **Electron Spin Resonance in Double and Triple Quantum Dots**
Gloria Platero, ICMM-CSIC
- P.12 **Tunneling AFM study of the local density of states in the self assembled In(Ga)As/GaAs(001) quantum dots and rings**
Dmitry Filatov, University of Nizhny Novgorod
- P.13 **Modelling and simulation of transport mechanisms and study of the charge/discharge kinetics of non-volatile Single Electron Memories with a metallic quantum dot**
Aimen BOUBAKER, INL-INSA Lyon and Faculté des Sciences de Monasir
- P.14 **All-Electrical Fano Effect Utilizing the “Self-Assembled” Quantum Dot in Quantum Point Contacts**
Jonathan Bird, University at Buffalo
- P.15 **Quantum transport through parallel dots in strong Coulomb blockade regime**
Xin-Qi Li, Beijing Normal University
- P.16 **Resonant tunneling through individual Au nanoclusters embedded in ultrathin SiO₂ films studied by Tunneling AFM**
Dmitry Filatov, University of Nizhny Novgorod
- P.17 **Transport mechanism in 2D arrays of self-assembled GaN/AlN QDs**
Alon Vardi, Department of Electrical Engineering Technion
- P.18 **Charge dynamics in two-electron quantum dots**
Jani Särkkä, Helsinki Institute of Physics
- P.19 **Vertically coupled non-uniform quantum rings with two separated electrons in threading magnetic field**
Jairo Humberto Marin Cadavid, Universidad Nacional of Colombia

- P.20 **Time-dependent transport through a correlated quantum dot with magnetic impurity**
Daniel Becker, University of Hamburg
- P.21 **Coupled donors in oval-shaped quantum ring**
Willian Gutierrez Niño, Universidad Industrial de Santander
- P.22 **Kondo and molecular regimes in a three dots Quantum Gate** Guillermo Chiappe, Universidad de Alicante
- P.23 **Investigation of Piezoelectric Fields in InGaAs Site Controlled Quantum Dots**
Sorcha Healy, Tyndall National Institute
- P.24 **Spin transitions in semiconductor quantum rings**
Benjamin Baxevanis, University of Hamburg
- P.25 **Circuit Quantum Electrodynamics with Single-Electron Quantum Dots on Helium**
Andreas Fragne, Yale University
- P.26 **Electrical properties of two laterally coupled vertical quantum dots in series with tunable inter-dot coupling**
Tsuyoshi Hatano, JST
- P.27 **Coherent electron transport through a double quantum dot coupled to three reservoirs**
Toshihiro Kubo, ICORP-JST
- P.28 **Leakage current at the spin blockade in g-factor controlled series quantum dots**
Yasuhiro Tokura, NTT Basic Research Laboratories
- P.29 **A novel spin based qubit in quantum dots (QD) coupled to a superconducting resonator**
Giles Allison, The University of Tokyo
- P.30 **Transport properties of graphene quantum dots**
Monica Pacheco, Universidad Santa Maria
- P.31 **Wigner molecules in carbon-nanotube quantum dots**
Massimo Rontani, CNR-INFM Research Center S3
- P.32 **Monitoring instantaneous Coulomb renormalizations via single quantum dot pump-probe spectroscopy: A theoretical analysis**
Jan Huneke, University of York
- P.33 **Heterogeneous confinement in lateral quantum dot molecules**
Jie Peng, Max-Planck Institute
- P.34 **Concentric Multiple Quantum Rings**
José María Escartín, Universitat de Barcelona
- P.35 **Remote pumping of individual self-assembled quantum posts using surface acoustic wave driven charge conveyance**
Florian J R Schülein, Universität Augsburg
- P.36 **Surface acoustic wave control of neutral and charged excitons in self-assembled quantum dots and quantum posts**
Florian J R Schülein, Universität Augsburg
- P.37 **Application of Orbital-free energy functional to quantum dots**
Gonul Bilgeç Akyuz, Dokuz Eylul University
- P.38 **How atom like is a quantum dot absorption spectrum?**
Bernhard Urbaszek, Université de Toulouse -LPCNO
- P.39 **Optical solitons in a GaAs/InGaAs single quantum dot**
Marie Francis Ramirez Cohen, Universidad de los Andes
- P.40 **Coherent to incoherent transitions in quantum dot resonant energy transfer dynamics**
Ahsan Nazir, University College London
- P.41 **Very narrow PL lines from single GaN/AlGaN quantum dots**
Bruno Gayral, CEA-Grenoble, INAC-SP2M
- P.42 **Kinetics of spin injection in single Mn-doped quantum dots**
Claire Le gall, Institut Néel, CNRS
- P.43 **Electronic Charge Distribution and Transport Model at Quantum Dots which are Defined by Oxidation**
Gorkem Oylumluoglu, Mugla University

- P.44 **Transport Measurements in a Few Electron Triple Quantum Dot Circuit**
Andrew Sachrajda, National Research Council
- P.45 **Influence of arsenic species on InAs islands formation on InAlGaAs/InP (100) surfaces**
Christian Gilfert, University of Kassel
- P.46 **Auger recombination in strongly disordered array of InGaN nanoislands as a possible reason behind efficiency droop of blue light-emitting diodes**
Andrey Greshnov, Ioffe Institute
- P.47 **Spectral Broadening in Hexagonal GaN Quantum Dots**
Christian Kindel, University of Tokyo
- P.48 **All-Optical Approaches to Quantum Computing Using Spins**
Brendon Lovett, University of Oxford
- P.49 **Spin resonance of electrons confined on Si/SiGe quantum dots**
Ferdinand Lipps, IFW Dresden
- P.50 **Charge and energy transfer in colloidal solutions of double-band emitting ZnSe/ZnS quantum dots doped with Mn ions**
Mikhail Artemyev, Institute for Physico-Chemical Problems of Belarussian State University
- P.51 **Spin effects in resonant tunnelling diodes with InAs self-assembled quantum dots**
Yara Galvão Gobato, UFSCAR
- P.52 **Control of the nuclear polarization in InAs quantum dots using detuned pulse trains**
Sam Carter, Naval Research Laboratory
- P.53 **Semiconductor qubit readout using a resonant circuit**
Charles Smith, University of Cambridge
- P.54 **Room temperature polarised excitons in GaN/AlN quantum dots embedded in nanowires**
Andrea Balocchi, LPCNO INSA Toulouse
- P.55 **Mid-infrared electro-luminescence from rocksalt-PbTe quantum dots embedded in a zincblende-CdTe matrix**
Thomas Schwarzl, University of Linz
- P.56 **Exploiting the interface between randomly nucleated and ordered dots for unrolling SiGe/Si dot properties on a micrometer scale**
Moritz Brehm, Institute of Semiconductor and Solid State Physics, University of Linz
- P.57 **Screening theory based modeling of the quantum Hall based quasi-particle interferometers defined at quantum-dots**
Ugur Erkarslan, Mugla University
- P.58 **Charge detection in a carbon nanotube double quantum dot coupled to a resonant circuit**
Zoe Penfold-Fitch, University of Cambridge
- P.59 **Controlled carrier injection in QD-based light emitting diodes by local laser processing**
Santosh Kumar, IFW Dresden
- P.60 **Dark exciton spectroscopy in CdTe quantum dots with a single Mn ion in high magnetic field**
Mateusz Goryca, Institute of Experimental Physics, University of Warsaw
- P.61 **Spin Physics in Carbon Nanotube Double Quantum Dots**
Mark Buitelaar, Cavendish Laboratory
- P.62 **A proposal for ultrafast initialization of a quantum dot spin using a short optical pulse**
Vivien Loo, Laboratoire de Photonique et de Nanostructures
- P.63 **High symmetry effects in quantum dots and nanostructures, how to identify and analyse them**
Marc-André Dupertuis, EPFL
- P.64 **Electron spin control in semiconductor quantum dots by electrical currents from micro-coils**
Jungtaek Kim, Institut für Physik, Humboldt Universität zu Berlin
- P.65 **Non-equilibrium edge-channel spectroscopy in the integer quantum Hall regime with a quantum dot as an energy filter**
Carles Altimiras, CNRS-LPN

- P.66 **Pumping heat with excitonic qubits**
Erik Gauger, University of Oxford
- P.67 **A driven double quantum dot as a single spin detector**
George Giavaras, University of Oxford
- P.68 **Dynamical properties of a vibrating quantum dot in a Josephson junction**
Jonas Fransson, Uppsala university
- P.69 **Robust states in coupled semiconductor quantum dots**
Augusto Alcalde, UFU
- P.70 **Quantum entanglement in lateral quantum dot molecules**
Vlastimil Křápek, Masaryk University
- P.71 **Stability of quantum Hall state in double layer with zero tunneling splitting at filling factor $\nu=1$**
Alexander Vasilchenko, Kuban State Technological University
- P.72 **Theory of exciton-polariton emission from quantum dots in an optical cavity**
José M. Villas-Bôas, Instituto de Física, Universidade Federal de Uberlândia
- P.73 **Effect of magnetic field on the electron-nuclear spin dynamics in quantum dots: Microscopic modeling**
Mikhail Petrov, Saint-Petersburg State University
- P.74 **Single optically active gated nanowire quantum dot for quantum information applications**
Michael Reimer, Delft University of Technology
- P.75 **Correlations and Gaps in Fractionally Filled States of Graphene Quantum Dots**
Devrim Guclu, National Research Council Canada
- P.76 **Energy spectrum of an artificial hydrogen molecule**
Jairo Humerto Marin Cadavid, Universidad Nacional of Colombia
- P.77 **Scanning gate microscopy of quantum dots in graphene nanoconstrictions**
Malcolm Connolly, University of Cambridge
- P.78 **Electric Field Controlled Ferromagnetism in High Curie Temperature Mn_{0.05}Ge_{0.95} Quantum Dots**
Faxian Xiu, UCLA
- P.79 **Quantum transport and the low temperature magneto-resistance of few layer graphene**
Yuichi Ochiai, Chiba University
- P.80 **Proposal for a magnetic field induced graphene dot**
P A Maksym, University of Leicester
- P.81 **GaN QDs embedded in 2D (Al,Ga)N-based photonic cavities**
Sylvain Sergent, CRHEA-CNRS
- P.82 **Understanding of charge transfer mechanism from QD to carbon nanotube**
Chang-Soo Han, Korea Institute of Machinery & Materials
- P.83 **Ferromagnetic properties of Mn₅Ge₃ precipitates in diluted magnetic Ge/Si quantum dots**
Im Yoon, Dongguk University
- P.84 **The breakdown of Kohn's theorem in few-electron parabolic quantum dots doped with a single magnetic impurity Mn²⁺**
Nga Nguyen, University of Antwerp
- P.85 **Phase-diagram for the magnetic states of the Mn-ion subsystem in few-electron magnetic quantum dots**
Nga Nguyen, University of Antwerp
- P.86 **Fast preparation and detection of Mn spin states in a magnetically doped quantum dot**
Doris Reiter, Institut für Festkörpertheorie, Westfälische Wilhelm-Universität Münster