

**Poster Session I (Tuesday 31.08, 18:00-20:00)**

**2D Materials (P1-01 – P1-19):**

P1-01	Robert Schmidt WWU Münster	Exciton diffusion in strained atomically thin semiconductors
P1-02		
P1-03	Małgorzata Zinkiewicz University of Warsaw	Neutral and charged dark excitons in monolayer WS <sub>2</sub>
P1-04	Kevin Sampson University of Texas at Austin	Phonon-assisted inter-valley scattering determines ultrafast exciton dynamics in MoSe <sub>2</sub> bilayers
P1-05	Emilia Zięba Wrocław University of Science and Technology	Excitonic bandgap and trion binding energy in monolayer and bilayer MoTe <sub>2</sub> 2D crystals controlled by the dielectric environment
P1-06	Magdalena Grzeszczyk University of Warsaw	Carrier density in monolayer MoS <sub>2</sub> govern by hBN encapsulation
P1-07	Nikita Leppenen Ioffe Institute, St. Petersburg	Exciton oscillator strength and Sommerfeld factor in two-dimensional Dirac materials
P1-08	Pedro Soubelet TU München	Charged exciton kinetics in monolayer MoSe <sub>2</sub> near ferroelectric domain walls in periodically poled LiNbO <sub>3</sub>
P1-09		
P1-10		
P1-11	Tomasz Woźniak Wrocław University of Science and Technology	Exciton g-factors of van der Waals heterostructures from first principles calculations
P1-12	Mikhail Glazov Ioffe Institute, St. Petersburg	Exciton valley Hall effect in two-dimensional semiconductors
P1-13		
P1-14	Alessandro Surrente, Wrocław University of Science and Technology	Magnetic field induced valley polarization in MoSe <sub>2</sub>
P1-15		
P1-16	Maxim Posazhenkov	Magnetoexciton in two-dimensional semiconductors

	National Research Nuclear University MEPhI, Moscow,	
P1-17	Frederik Lohof Universität Bremen	Threshold properties of high-beta TMD nanolasers
P1-18	Jakub Jasiński Wrocław University of Science and Technology	Optical properties of 2D MoS <sub>2</sub> on GaAs nanomembrane
P1-19	Mark Akmaev, Lebedev Physical Institute, Moscow	Inhomogeneous exciton dynamics in WSe <sub>2</sub> monolayers

**Coherent phenomena, quantum optics (P1-20 – P1-27 & P1-61):**

P1-20	Subhradeep Misra Weizmann Institute of Science	Exciton BEC and disorder: The evolution from a fragmented Bose glass to a smooth condensate
P1-21	Liubov Sirkina Cardiff University	Impact of the phonon environment on the nonlinear quantum-dot cavity QED
P1-22	Daniel Groll University of Münster	Influence of non-equilibrium phonon dynamics on photoluminescence spectra of color centers in hexagonal boron nitride
P1-23	Carolin Lüders TU Dortmund	Quantifying quantum coherence in polariton condensates
P1-24	Bakhysh Bairamov, Ioffe Institute, St. Petersburg	Revealing coherent electron transport in semiconductor quantum dots
P1-25	Yurii Zavorotniev Donetsk Institute for Physics and Engineering	Bose-Einstein condensate of excitons in crystals with defects and phase matching in nonlinear processes
P1-26	Shouvik Datta Indian Institute of Science Education and Research	Tailoring quantum oscillations of excitonic Schrodinger's cats as qubits
P1-27	Carlos Antón Solanas Carl von Ossietzky Universität, Oldenburg	Photon-number entanglement generated by sequential excitation of a two-level atom

P1-61	Valentin Walther, Harvard University	Nonclassical light from exciton interactions in a two-dimensional quantum mirror
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**Exciton-polaritons, microcavities, Bose-Einstein condensation (P1-28 – P1-41):**

P1-28	Elena Rozas TU Dortmund	Polariton bistability as a detection mechanism for dark excitons
P1-29		
P1-30	Ismael Septembre CNRS and University Clermont Auvergne	Parametric amplification of topological interface states in polaritonic synthetic Andreev bands
P1-31	Helgi Sigurdsson University of Southampton	Lotka-Volterra dynamics in coherent and tunable oscillators of trapped polariton condensates
P1-32		
P1-33	Ivan Amelio ETH Zurich	Superfluidity of resonantly driven polariton fluids in the presence of a dark reservoir
P1-34	Konstantinos Orfanakis University of St Andrews	Ultralong temporal coherence in optically trapped exciton-polariton condensates
P1-35	Anna Grudinina National Research Nuclear University MEPhI	Hartree-Fock-Bogoliubov description for exciton-polaritons
P1-36		
P1-37	Krzysztof Sawicki University of Warsaw	Polariton condensation and parametric scattering in non-resonantly driven coupled planar microcavities
P1-38		
P1-39		
P1-40		
P1-41	Kirsty McGhee University of Sheffield	Polariton condensation in an organic microcavity utilising a hybrid metal-DBR mirror

**Quantum dots, nanostructures, devices (P1-42 – P1-60)**

P1-42	Saptarshi Kotal, CEA Grenoble, IRIG- PHELIQS	A nanowire optical nanocavity for broadband enhancement of spontaneous emission
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P1-43	Pia Lochner University of Duisburg- Essen	Internal photoeffect from a single quantum emitter
P1-44	Julian Wiercinski Universität Bayreuth	Preparation of nonclassical multi-photon states in quantum dot - cavity systems
P1-45	Benjamin Mayer Universität Augsburg	Quantum dot optomechanics in suspended nanophononic strings
P1-46	Simone Luca Portalupi Universität Stuttgart	Purcell-enhanced single-photon emission from a strain-tunable quantum dot in a cavity-waveguide device
P1-47	Hendrik Rose Paderborn University	Optical control of the emission time of photon echoes from quantum dot ensembles
P1-48	Pawel Holewa Wrocław University of Science and Technology	Single-photon emission at elevated temperatures from InGaAs/GaAs quantum dots at the telecom O-band
P1-49	Martyna Patera Nicolaus Copernicus University in Toruń	Self-consistent and external electric field calculations for crystal phase quantum dots
P1-50	Jens Kerski University of Duisburg- Essen	A quantum sensor for nanoscale defect characterization
P1-51	Paweł Mrowiński Wrocław University of Science and Technology	Deterministically fabricated and tunable quantum dot single-photon source emitting in the telecom O-band
P1-52	Boaz Lubotzky The Hebrew University of Jerusalem	High brightness fiber-coupled single photon source
P1-53	Andrey Kurdyubov St. Petersburg State University	Dynamic control of exciton reservoir in GaAs/AlGaAs quantum wells
P1-54	Pavel Belov St. Petersburg State University	Nonradiative linewidth broadening of electron-hole quasibound states in quantum wells
P1-55	Philipp Grigoryev	Limitations for numerical exciton wave function calculations in quantum wells

	St. Petersburg State University	
P1-56	Boris Gribakin St. Petersburg State University	Collisional broadening of exciton resonances in GaAs/AlGaAs quantum wells
P1-57	Margarita Sharipova St. Petersburg State University	Interaction of the heavy-hole and light hole excitons with light in quantum wells
P1-58	Maksim Chukeev St. Petersburg State University	Exciton-exciton interaction in quantum wells in electric field
P1-59	Damir Mursalimov St. Petersburg State University	Nonlinear broadening of exciton resonances in quantum wells
P1-60	Semen Chentsov Lebedev Physical Institute, Moscow	Isolated (quantum) emitters caused by quasi 1D excitonic states in the core of partial dislocation in Cd(Zn)Te