

Program of QLIN-2019

Day 1 – Monday July 8, 2019

9.30-9.45	Gora Shlyapnikov & Galia Pozina	Opening of the conference
Session 1 Chair Gora Shlyapnikov		
9.45-10.30	Mikhail Glazov	Ioffe Institute, Russia <i>Plenary talk: Phonon wind and phonon drag of excitons in monolayer semiconductors</i>
10.30-11.00	Tatiana Shubina	Ioffe Institute, Russia <i>Invited talk: Excitons in bulk and nanostructures of monochalcogenides</i>
11.00-11.30	Coffee break	
Session 2 Chair Tatiana Shubina		
11.30-12.00	Dmitrii Yakovlev	TU Dortmund, Germany <i>Invited talk: Spin-dependent phenomena in colloidal semiconductor nanoplatelets</i>
12.00-12.30	Alexey Toropov	Ioffe Institute, Russia <i>Invited talk: Extreme two-dimensional exciton confinement in a monolayer of GaN within AlN</i>
12.30-13.00	Leonardo Fallani	University of Florence, Italy <i>Invited talk: Engineering synthetic quantum systems with atoms and light</i>
13.00-15.00	Lunch	
Session 3 Chair Alexey Toropov		
15.00-15.30	Marina Semina	Ioffe Institute, Russia <i>Invited talk: Control of exciton radiative lifetime in monolayer-thin semiconductors by tailoring the environment</i>
15.30-16.00	Carl Hemmingsson	Linköping University, Sweden <i>Featured talk: Electrically active defects in wide band gap semiconductors</i>
16.00-16.30	Coffee break	
16.30-19.30	Round table discussion: next frontiers	
19.30-21.00	Dinner	

Day 2 – Tuesday July 9, 2019

Session 4 Chair Sergey Ganichev		
9.45-10.30	Igor Abrikosov	Linköping University, Sweden <i>Plenary talk: Defects in SiC: a single optically addressable spin embedded in a high-performance electronic material</i>
10.30-11.00	Sergey Tarasenko	Ioffe Institute, Russia <i>Invited talk: Optics with spin-3/2 centers in SiC layers</i>
11.00-11.30	Coffee break	
Session 5 Chair Mikhail Glazov		
11.30-12.00	Sergey Ganichev	University of Regensburg, Germany <i>Invited talk: Edge currents driven by terahertz radiation in hBN graphene in quantum Hall regime</i>
12.00-12.30	Luba Kotova	Ioffe Institute, Russia <i>Invited talk: Magneto-spatial dispersion of semiconductor quantum wells</i>
12.30-13.00	Sylvain Ravets	Université Paris Saclay, France. <i>Invited talk: Nonlinear optics in the fractional quantum Hall regime</i>
13.00-15.00	Lunch	
Session 6 Chair Sylvain Ravets		
15.00-15.30	Iouri Poussep	University of São Paulo, Brazil <i>Invited talk: Spectroscopy of localized and extended states below the Fermi level</i>
15.30-16.00	Natalia Abrikossova	Linköping University, Sweden <i>Featured talk: Investigations of nanoparticle-cell interactions for biocompatible applications</i>
16.00-16.30	Coffee break	
16.30-19.30	MIFP members meeting	
19.30-21.00	Dinner	

Day 3 – Wednesday July 10, 2019

Session 7 Chair Igor Abrikosov		
9.45-10.30	Georgy Shlyapnikov	Russian Quantum Center, Russia & LPTMS, CNRS, Orsay, France <i>Plenary talk: New trends in nanophysics with cold atoms</i>
10.30-11.00	Hadiseh Alaeian	Universität Stuttgart, Germany <i>Invited talk: Hybrid Atomic-Photonics: New Paradigm for Integrated Quantum Optics</i>
11.00-11.30	Coffee break	
Session 8 Chair Dmitrii Yakovlev		
11.30-12.00	Nina Voronova	National Research Nuclear University MEPhI, Russia <i>Invited talk: High-Tc direct exciton Bose condensation</i>
12.00-12.45	Boris Altshuler	Columbia University, USA <i>Plenary talk: TBA</i>
13.00-15.00	Lunch	
Session 9 Chair Sergey Tarasenko		
15.00-15.30	Igor Lukyanchuk	Université de Picardie, France <i>Invited talk: Ferroelectrics at the nanoscale: negative capacitance, multi-bit logic, topology, and knotting</i>
15.30-16.00	Andrey Varlamov	University of Rome Tor Vergata, Italy <i>Invited talk: Detection of topological phase transitions through entropy measurements</i>
16.00-16.30	Daoud Mezzane	Ayyad University, Morocco <i>Invited talk: Very-low temperature synthesis of pure and crystalline lead-free BCZT ceramic for energy storage</i>
16.30-17.00	Coffee break	
17.00-19.30	Poster session	
19.30-23.00	Conference Banquet	

Day 4 – Thursday July 11, 2019

Excursion

Day 5 – Friday July 12, 2019

Session 10 Chair Galia Pozina		
10.00-10.30	Alexey Kavokin <i>Eco talk: Polariton Qubits</i>	Westlake University, China
10.30-11.00	Evgeniy Sedov <i>Invited talk: Extrinsic spin-orbit coupling of exciton-polaritons in microcavities</i>	Southampton University, UK
11.00-11.30	Coffee break	
Session 11 Chair Marina Semina		
11.30-12.00	Christophe Salomon <i>Invited talk: Quantum simulation with ultracold fermions</i>	Ecole Normale Supérieure, France
12.00-12.30	Azat Gubaydullin <i>Invited talk: Rectification of photonic heat current</i>	Aalto University, Finland
12.30-13.00	Vladimir Kuznetsov <i>Invited talk: Nonequilibrium Spin Polarization at Filling Factor of 3/2</i>	Higher School of Economics and Institute of Solid State Physics, Russia
13.00-15.00	Lunch	
Session 12 Chair Igor Lukyanchuk		
15.00-15.30	Galia Pozina <i>Invited talk: Super radiance in a periodic structure composed of InAs monolayers embedded in a GaAs matrix</i>	Linköping University, Sweden
15.30-16.00	Gora Shlyapnikov, Galia Pozina <i>Conference summary</i>	
16.00-16.30	Coffee break	
16.30-19.30	MSCA network planning	
19.30-21.00	Dinner	

Day 6 – Saturday July 13, 2019

Terrace session

10.00-13.00

MSCA-Rise Project STONE meeting

Presentation of reports by the project participants

13.00-15.00

Lunch

Conference closing

Day 7 – Sunday July 14, 2019

Departure day