

International Conference on Metamaterials and Nanophysics

5 – 12 April 2015, Varadero, Cuba

Program

Sun 05.04.2015	Arrival of the participants to Havana
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Mon 06.04.2015	Departure of the participants to Varadero; 9:00 at the entrance of the Hotel
19:00	Welcome reception

Tue 07.04.2015		Chair: Alexey Kavokin	Title of lecture
09:00	09:15	Alexey Kavokin	Opening
09:30	10:00	Sven Hoefling	Interband Cascade Lasers
10:00	10:30	Mikhail Portnoi	Bielectron vortices in two-dimensional Weyl semimetals
10:30	11:00	Carlos Duque	Electron-related Raman scattering in GaAs/Ga _{1-x} In _x As _{1-y} N _y cylindrically-shaped quantum dots
11:00	11:30	Chair: Sven Hoefling	Coffee break
11:30	12:00	Alexey Akimov	Light matter interfaces for solid state quantum emitters
12:00	12:30	Brian Gerardot	The latest (WSe ₂ defects) and greatest (InGaAs quantum dots) in solid-state quantum emitters
12:30	13:00	Mohammed Es-Souni	Supported, ordered 1D–nanomaterials for sensing and energy applications
13:00	15:00	Chair: Alexey Akimov	Lunch
14:00	14:30	Emiliano Cancellieri	Logic Gates with Bright Dissipative Solitons in Cavity Polariton Circuits
14:30	15:00	Zhanghai Chen	Polarization-Coupled Polariton Pairs in a Birefringent Microcavity
15:30	16:00	Yan Chen	Exploring chiral and non-chiral spin liquids in kagome antiferromagnets
16:00	16:30		Coffee break

Wed 08.04.2015		Chair: Dmitrii Krizhanovskii	Title of lecture
09:00	09:30	Mikhail Glazov	Exciton fine structure and spin/valley decoherence in transition metal dichalcogenides
09:30	10:00	Marina Semina	Localized states of electrons, excitons and trions in nanostructures
10:00	10:30	Valery Zapasskiy	Advances in Spin Noise Spectroscopy
10:30	11:00	Chair: Mikhail Glazov	Coffee break
11:00	11:30	Sergey Poltavtsev	Magnetic-field-controlled optical memory based on photon echo effect
11:30	12:00	Galia Pozina	In light of the Nobel Prize 2014: current problems related to p-type doping of GaN
12:00	12:30	Dmitrii Krizhanovskii	Polaritons in tunable open microcavity: spin-vortices and strong photon coupling with 2D materials
12:30	14:00		Lunch

Thu 09.04.2015	Sightseeing Day
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Fri 10.04.2015		Chair: Jerome Tignon	Title of lecture
09:00	09:30	Grzegorz Sek	Optical properties of semiconductor nanostructures on InP with respect to photonic applications at the telecommunication wavelengths
09:30	10:00	Gora Shlyapnikov	Many-body physics with quantum gases in disorder
10:00	10:30	Alexander Poddubny	Inelastic scattering of light and polaritons in nanostructures
10:30	11:00	Chair: Mikhail Portnoi	Coffee break
11:00	11:30	Jerome Tignon	Multiple microcavities: from parametric oscillation to pattern formation and teraHertz emission
11:30	12:00	Alexey Kavokin	Light-Matter Correlations in Polariton Condensates
12:00	12:30	Simone De Liberato	Non-perturbative light-matter coupling: novel results in superconducting circuits
12:30	13:00	Michael Fraser	Controlling exciton-polariton condensates with excitonic and photonic confining potentials
13:00	14:30		Lunch
14:30 — 16:00		Poster session	
20:00		Social Dinner, Dancing Hall	

Sat 11.04.2015		Chair: Ilia Akimov	Title of lecture
09:00	09:30	Tatiana Shubina	The Purcell effect in III-Nitride based structures
09:30	10:00	Olivia Pulci	Tunable electronic and optical properties in 2D materials
10:00	10:30	Alexander Tagantsev	Functional domain walls in non-magnetic ferroics
10:30	11:00	Chair: Sergey Poltavtsev	Coffee break
11:00	11:30	Egor Muljarov	Exact theory of Purcell effect and resonant state expansion
11:30	12:00	Ilja Akimov	Proximity effect in ferromagnetic-semiconductor hybrid structures
12:00	12:30	Julien Dugay	Size effect of the electrical spin-state switching of spin-crossover nanorods
12:30	14:00		Lunch

Sun 12.04.2015	Last day of the Conference — going to Havana or back home
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