

– Excitons and Polaritons 2D Materials

– Optics of 1D structures and Quantum Dots

– Physics of exciton-polaritons

– Non-Hermitian and Topological physics

– Plasmonic, Metamaterials, Novel optical devices

– Indirect excitons and spin-related phenomena

Sunday April 10		Monday April 11, 2022	Tuesday April 12, 2022	Wednesday April 13, 2022	Thursday April 14, 2022	Friday April 15, 2022	
	09:15		DANIELE SANVITTO <i>Waveguide polariton condensates via bound states in the continuum</i>	Sebastian Klembt* <i>Topological insulator vertical-cavity laser array</i>	PAVLOS LAGOUDAKIS <i>Liquid light computing: towards all optical full logic</i>	Masha Vladimirova <i>Simultaneous measurements of nuclear spin heat capacity, temperature and relaxation in GaAs microstructures</i>	
	09:45			Sevak Demirchyan <i>Edge currents and charge density wave in a conducting Möbius stripes</i>			Sergiu Anghel <i>Effect of electron density on spin helices in GaAs quantum wells: Interplay of spin-orbit coupling and spin diffusion</i>
	10:00			Sergey Alyatkin* <i>Microcavity polaritons in optical Lieb lattice: transition from ballistically expanding to trapped polaritons</i>	Pavel Kokhanchik <i>Control of SSH chain topology by Rashba-Dresselhaus spin-orbit coupling</i>	Davide Nigro <i>Integrated quantum polariton interferometry</i>	Michal Zimmerman <i>Probing Interlayer Pairing Via Density Imbalance in Exciton Bilayers</i>
	10:15			Yago del Valle Inclan Redondo <i>Fast dynamic optical lattices of exciton-polaritons</i>	Erik Kirstein <i>Coherent spin dynamics and carrier-nuclei interaction in lead halide perovskite crystals</i>	Carolín Lüders <i>Quantifying Quantum Coherence in Polariton Condensates</i>	Nedelea Vitalie <i>Q-system with fast optical access for the Zn-vacancy in ZnSe</i>
	10:30			Hassen Souissi <i>Analysis and modeling of polaritonic gain in GaN ridge polariton lasers</i>		Dror Liran <i>Tunable electro-optical blockade and switching of propagating exciton-polaritons</i>	Rémi Aristégui* <i>Electrically-controlled exciton transport and trapping in GaN/(Al,Ga)N quantum wells</i>
	10:45	Coffee & Registration	Coffee break	Coffee break	Coffee break	Coffee break	
	11:15	Opening	Martin Weitz <i>Observation of a non-Hermitian phase transition in an optical quantum gas</i>	Katharina Nisi <i>Defect-engineered magnetic field dependent optoelectronics of vanadium doped tungsten diselenide monolayers</i>	Sven Höfling <i>Semiconductor quantum dots for quantum technologies</i>	Dario Ballarini <i>2D quantum turbulence in exciton-polariton superfluids</i>	
	11:30	ANDREAS STIER <i>Manybody enhanced spin-valley physics in 2D semiconductors</i>		Maanwinder Partap Singh <i>Impact of domain disorder on optoelectronic properties of layered semimetal MoTe2</i>			
	11:45		Elizier Estrecho <i>Non-Hermitian effects on exciton-polariton dispersion</i>	Katja Barthelmi <i>Exciton-phonon interaction in precisely positioned single photon emitters in monolayer MoS2</i>	Katarina Boos <i>High-resolution spectroscopy of a quantum dot driven bichromatically by two strong coherent fields</i>	Tamsin Cookson* <i>Giant vorticity in geometrically frustrated polygons of polariton condensates</i>	
	12:00			Alexander Hötger <i>High magnetic field measurements on defect luminescence in monolayer MoS2 locally irradiated by He-ions</i>	Frederik Bopp <i>Electric field tunable transition dipole moments and selective optical charging of a single QD molecule</i>	Elena Rozas Jimenez <i>Polariton-dark exciton interactions in bistable semiconductor microcavities</i>	
12:15	Jonas Kiemle <i>Berry curvature-induced local spin polarisation in gated graphene/ WTe2 heterostructures</i>	Dąbrówka Biegańska <i>Elementary excitations of exciton-polariton condensates in a synthetic gauge field</i>	Matthias Wurdack <i>Room-temperature exciton polaritons in an atomically-thin WS2 crystal</i>	Artur Trifonov <i>Strong enhancement of heavy-hole Landé factor q in InGaAs symmetric quantum dots revealed by coherent optical spectroscopy</i>	Anna Grudinina* <i>Dark excitons effect on the Bogoliubov sound in polariton fluids</i>		
12:30	Manuel Katzer <i>Impact of optically pumped non-equilibrium steady states on luminescence emission of atomically-thin semiconductor excitons</i>	Ismaël Septembre <i>Annihilation of exceptional points from different Dirac valleys</i>	Chenjiang Qian <i>Fully hBN encapsulated MoS2 Monolayers attached to Si3N4-Nanobeam Cavities with Q>10000</i>	Michał Zieliński <i>Dark-bright excitons mixing in alloyed quantum dots</i>	Nina Voronova <i>Anisotropic dispersion of excitations of the BIC polariton condensate</i>		
12:45	Bilal Tanatar T.B.C. <i>Metal-insulator transitions in bilayer electron-hole systems in transition metal dichalcogenides</i>	Charly Leblanc <i>Universal semiclassical equations based on the quantum metric</i>	Andrew Wild <i>Optovalleytronics of two-dimensional materials with tilted Dirac cones</i>	Santiago Ríos-Álvarez T.B.C. <i>Linear and nonlinear optical response in semiconductor diamond-shaped quantum ring under orthogonal electric and magnetic fields</i>	Best Student Talk Award + Closing		
13:00	Lunch	Lunch	Lunch	Lunch	Lunch		
15:00	Stella Kutrovskaya <i>Exciton observation in Linear Carbon Chains</i>	Javier Cuerda <i>Magnetic on-off switching of a plasmonic laser</i>	BEACH VOLLEYBALL tournament	Alexey Kavokin <i>Qubits based on split-ring exciton-polariton condensates</i>			
15:30	Mikhail Portnoi <i>Optics of quasi-one-dimensional carbon nanostructures</i>	Robert Salzwedel <i>Theory of radial oscillations in metal nanoparticles driven by optically induced electron density gradients</i>		Helgi Sigurðsson <i>Probing long-time dynamics in optically trapped exciton-polariton condensates</i>			
15:45		Francesco Rinaldo Talenti <i>Reduced Model of Nanoscale Photonic Resonators for Inverse Design</i>		Dąbrówka Biegańska <i>High-temperature condensation, ballistic propagation and non-hermitian effects of exciton polaritons in AlGaAs-based microcavities</i>			
16:00		Svetlana Vitusevich <i>Nanowire structures: optics and biosensing</i>		Coffee break			
16:15		Coffee break					
	---end of program 16:45---	---end of program 16:30---		---end of program 16:30---			
18:00 Welcome Reception				19:00 Conference Banquet			

* – talk will be given by a co-author