

PLMCN18 Program At A Glance

Sunday July 9, 2017	Monday July 10, 2017	Tuesday July 11, 2017	Wednesday July 12, 2017	Thursday July 13, 2017	Friday July 14, 2017
	08:30 Registration				
	08:45 Opening				
	09:00 Serge Haroche Quantum metrology with Schrödinger cats	09:00 Hiroshi Amano Growth of III-Nitride Nanorods for Future Optoelectronics Applications	Excursion Day	09:00 Pascale Senellart Quantum optics with semiconductor quantum dots	09:00 Jeremy Baumberg Spin-Josephson coupling and the phase diagram of polariton condensate arrays
	09:45 Yoshihisa Yamamoto Quantum neural network based on measurement-feedback degenerate optical parametric oscillators	09:45 Michel Dyakonov Microwave-induced resistance oscillations as a classical memory effect		09:45 Fabrice Laussy N-photon emission from resonance fluorescence	09:45 Jacqueline Bloch Dynamical hysteresis and instability of cavity polaritons
	10:15 Natasha Berloff Realizing the XY Hamiltonian with polariton graphs	10:15 Benoit Jouault Homogeneous versus inhomogeneous broadening of the photoluminescence in polar GaN/(AlGa)N quantum wells		10:15 Christian Schneider Quantum dot-micropillar single photon sources with high brightness and coherence	10:15 Hyang-Tag Lim Electrically tunable artificial gauge potential for polaritons
	10:30	10:30 Thierry Guillet Anti-vortex solitons in Vertical-Cavity Surface-Emitting Lasers with frequency selective feedback		10:30 Kevin Fischer Emission of two-photon pulses from a quantum two-level system	10:30 Dario Ballarini Room temperature superfluidity in organic polaritons
	10:45 Coffee break	10:45 Coffee break		10:45 Coffee break	10:45 Coffee break
	11:15 Susumu Noda Progress in Photonic Crystals	11:15 Tony F. Heinz Light-matter interactions in 2D semiconductors		11:15 Masha Vladimirova Spin temperature concept verified by optical magnetometry of nuclear spins	11:15 Allan H. MacDonald Electrical Manipulation of Exciton and Polariton Gases
	11:45 Pasquale Scarlino Strong coupling cavity QED with gate-defined double quantum dots enabled by a high impedance resonator	11:45 Alex High Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons		11:45 Ursula Wurstbauer Resonant inelastic light scattering on indirect excitons and overflow of dipolar traps at high magnetic fields	11:45 Yuqing Huang Spin injection and helicity control of surface spin photocurrent in a 3D topological insulator Bi ₂ Te ₃ grown on GaAs
	12:00 Anna Musial Transition from Jaynes-Cummings to Autler-Townes ladder in a quantum dot-microcavity system	12:00 Andrew Joe Engineering interlayer excitons in van der Waals heterostructures		12:00 Jake Iles-Smith Probing electron-phonon interaction through two-photon interference in resonantly driven semiconductor quantum dots	12:00 Alexander Gorbunov Long-lived triplet magnetoexcitons and 2D magnetofermionic condensate
	12:15 Feng Liu High Purcell Factor Generation of Coherent, On-Chip Single Photons	12:15 Nils Lundt Trion-Polaritons in a MoSe ₂ monolayer		12:15 Arsenty Kaganskiy High-β Micropillar Lasers with Site-controlled Quantum Dots Fabricated via the Buried Stressor Approach	12:15 Vladimir Kochereshko Manifestation of PT symmetry in optical spectra of quantum wells
	12:30 Sokratis Kalliakos Resonance fluorescence on a quantum dot coupled to a photonic crystal waveguide	12:30 Mikhail Portnoi Momentum alignment of photoexcited carriers and optoelectronics in two-dimensional Dirac materials		12:30 Sergey Poltavtsev Transient four-wave mixing on trions and donor-bound excitons in ZnO semiconductor nanostructures	12:30 Tobias Siegle Tunable photonic devices made from polymers
	12:45 Petros Androvitsaneas Deterministic giant photon phase shift from a charged quantum dot	12:45 Yuriy Zakharko Weak and strong plasmon-exciton coupling in carbon nanotubes and plasmonic crystals		12:45 Grzegorz Sęk GaAs-based quantum dots as high-efficiency single photon emitters at the telecommunication O-band	12:45 Joanna Zajac Time-resolved studies on energy transfer in GFP-family proteins
	13:00				
	13:15 Lunch	13:15 Lunch		13:15 Lunch	13:15 Lunch
	14:30 Ataç İmamoğlu Polaritons in two dimensional systems	14:30 Manfred Bayer Rydberg Excitons in Cuprous Oxide		14:30 Konstantin Bliokh Edge modes, degeneracies, and topological numbers in non-Hermitian systems	14:30 Daniele Sanvitto First observation of a non classical state of the polariton field
	15:00	15:00 Marc-Alexander Assmann Quantum Chaos and breaking of all anti-unitary symmetries in Rydberg excitons		15:00 Adèle Hilico Quantum optical circulator controlled by a single chirally coupled atom	15:00 Eliezer Estrecho Talbot effect of exciton-polaritons in structured microcavity
	15:15 Mikhail Lukin Quantum optics with solid state atom-like emitters and 2D materials	15:15 Jacek Kasprzak Exploring coherence of individual quantum dots embedded in photonic defects		15:15 Andreas Mischok Dispersion engineering of laser modes in three-dimensionally patterned organic microcavities	15:15 Liming Liao Fano Resonance of Polariton and Second Harmonic Generation
	15:30	15:30 Yasuhiko Arakawa Quantum dots embedded in 2D/3D photonic crystal nanocavities for manipulating cavity-quantum electrodynamics		15:30 Alexander Poshakinskiy Optomechanical nonreciprocity with multiple quantum wells	15:30 Simone De Liberato Localized Phonon Polaritons: A Novel Platform for Mid-Infrared Quantum Polaritonics
	15:45 Marco Manca Enabling valley selective exciton scattering in monolayer WSe ₂ through upconversion			15:45 Matthias Hensen Coherent energy transfer between widely separated nanoantennas coupled via a plasmonic cavity	15:45 Thomas Volz* Towards quantum polaritonics with semi-integrated fibre cavities
	16:00 Julian Klein Electric-field switchable second-harmonic generation in bilayer MoS ₂ by inversion symmetry breaking	16:00 Konstantinos Lagoudakis Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins		16:00 Yanwen Wu Plasmonic Tuning of Semiconductor Quantum Dots	16:00 Omar Jamadi* Edge-emitting polariton laser and optical amplifier based on a ZnO waveguide
	16:15 Johannes Kern Deterministic Positioning of Single-Photon Emitters in Monolayer WSe ₂ on the Nanoscale	16:15 Lukas Huthmacher Phase-tuned entangled state generation between distant spin qubits		16:15 Jeremy Baumberg* Strong-coupling of WSe ₂ in ultra-compact plasmonic nanocavities at room temperature	16:15 Carole Diederichs* Room-temperature polariton lasing in all-inorganic perovskite
	16:30 Coffee break	16:30 Coffee break			16:30 Best Poster Award + Closing ---end of program 16:45---
17:00 Registration of participants opens	17:00 Cristiano Ciuti Dissipative phase transitions in photonic lattice systems	17:00 Elena Ostrovskaya Optically confined microcavity exciton polaritons: from fragmented to uniform condensates	POSTER SESSION		
	17:30 Sergei Gavrilov* Polariton chimeras: Bose condensates with intrinsic chaoticity and spontaneous long-range ordering	17:30 Alexey Kavokin Long-living polaritons in microcavity wedges: chaos, attractors and Berry phase			
	17:45 Pavlos Lagoudakis Engineering Polariton Simulators				
18:00 Welcome Reception <i>Wine-tasting and Franconian Brotzeit</i>	18:00 Anton Nalitov Spontaneous currents in polariton superlattices	EDITORIAL SESSION <i>Dr. Maria Maragkou</i>			
	18:15 Albert Adiyatullin Periodic Squeezing in a Polariton Josephson Junction	Chair: Prof. P. Lagoudakis			
	---end of program 18:30---	---end of program 18:25---			
	19:00		19:00 Conference Banquet		

* - post deadline submission

- Solid-State quantum information processing, quantum simulation, two-level systems
- Cavity QED; Metamaterials, photonic crystals, plasmonics; Non-Hermitian and non-reciprocal physics, optomechanics
- Optics of 2D materials, novel materials, organics, carbon nanotubes, etc
- Exciton polaritons, Light-matter coupling in microcavities; Polaritonics
- Indirect excitons, electron gases, spin physics, quantum dots
- Novel optical devices; Transport of excitons and exciton-polaritons