

Day 1 - HPM 2026 - MONDAY, 28 September 2026

08:15-08:45	Registration			
08:45-09:00	HPM 2026 Official Opening			
Time	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Ghost state of light	Rodriguez Said Rahimzadeh-Kalaleh	AMOLF	Jacqueline Bloch
09:30-10:00	Room-Temperature Spin Polarized Polariton Transport and Mode Locking in Perovskite Waveguides	Barbara Pietka	University of Warsaw	
10:00-10:30	The quest for exciton-polariton devices based on large bandgap inorganic semiconductors	Guillaume Malpuech	Institut Pascal, CNRS and University Clermont Auvergne	
10:30-11:00	Non-Perturbative Electrodynamics on Simplicial Meshes: Applications from Circuit QED to Relativistic Field Theory	Hakan Tureci	Princeton University	
11:00-11:45	COFFEE BREAK			
11:45-12:15	Making physical machines learn	Florian Marquardt	Max Planck Institute for the Science of Light	Natalia Berloff
12:15-12:45	Unstored prototype recall with a coherent Ising machine	Hiroki Takesue	Basic Research Laboratories, NTT, Inc.	
12:45-13:15	Tackling the hard cases – bosons in fully-frustrated lattices	Ulrich Schneider	University of Cambridge	
13:15-15:00	LUNCH			
15:00-15:30	Universal scaling laws in the coherence decay of 2D polariton condensates	Jacqueline Bloch	CNRS / Paris-Saclay University	Barbara Pietka
15:30-16:00	Lattice quantum electrodynamics of a molecular emitter in a topological gap	Alberto Amo	CNRS - University of Lille	
16:00-16:30	Engineering Spin and Topology of Perovskite Exciton Polaritons	Rui Su	Nanyang Technological University	
16:30-17:15	COFFEE BREAK			
17:15-17:45	KPZ scaling in one-dimensional photon condensates	Michiel Wouters	Universiteit Antwerpen	Alberto Amo
17:45-18:15	The 30 year journey to make an electrically driven polymer laser	Ifor Samuel	University of St Andrews	
18:15-20:00	Welcome drinks reception			

Day 2 - HPM 2026 - TUESDAY, 29 September 2026

Time	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Variational multi-Gaussian phase-space dynamics of open quantum bosonic systems	Cristiano Ciuti	Université Paris Cité	Vincenzo Savona
09:30-10:00	Emergent complex quantum networks in continuous-variables non-Gaussian states	Lincoln Carr	Colorado School of Mines	
10:00-10:30	Ultrafast properties of mid-infrared intersubband polaritons: engineering the polariton-polariton interaction	Jean-Michel Manceau	University Paris Saclay (C2N)	
10:30-11:00	Reservoir-mediated condensate attraction: vorticity oscillations, self-trapping, and supersolidity	Anton Nalitov	Moscow Institute of Physics and Technology	
11:00-11:45	COFFEE BREAK			
11:45-12:15	The cost of quantum advantage: magic and entanglement in quantum algorithms and noisy quantum circuits	Vincenzo Savona	Ecole Polytechnique Fédérale de Lausanne	Cristiano Ciuti
12:15-12:45	Polaritonic machine learning: generative modelling from theory to experiment	Oleksandr Kyriienko	University of Sheffield	
12:45-13:15	Strong light-matter coupling in organic semiconductors for efficient lasers, LEDs, and optical filters	Malte Gather	University of Cologne	
13:15-15:00	LUNCH			
15:00-15:30	Quantum and classical processing with photonic quantum machine learning	Michał Matuszewski	Center for Theoretical Physics, Polish Academy of Sciences	Pavlos Savvidis
15:30-16:00	Liouvillian exceptional points diagnose quantum synchronization in polariton condensate	Paul Eastham	Trinity College Dublin	
16:00-16:30	COFFEE BREAK			
18:00-23:00	Bus tour to Naoussa and conference dinner – until 23:00			

Day 3 - HPM 2026 - GUIDED TOUR OF PAROS AND SUNSET BOAT TRIP - WEDNESDAY, 30 September 2026 - 09:00-20:00

Day 4 - HPM 2026 - THURSDAY, 1 October 2026

Time	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Landau polaritons and cavity-driven attractive interactions in single and bilayer graphene	Giacomo Scalari	ETH Zurich	Nir Davidson
09:30-10:00	Non-linear intersubband polaritonic devices: a versatile platform for frequency combs and ultra-fast lasers in the mid-IR	Raffaele Colombelli	Centre de Nanosciences et de Nanotechnologies	
10:00-10:30	Electrically Tunable Spin-Orbit Coupled Photonic Potentials in Liquid Crystal Microcavities	Jacek Szczytko	University of Warsaw	
10:30-11:00	Resonant Control of Polariton Time Crystals	Alejandro Fainstein	Instituto Balseiro and Centro Atómico Bariloche	
11:00-11:45	COFFEE BREAK			
11:45-12:15	Laser arrays with complex coupling have complex bands	Nir Davidson	Weizmann Institute of Science	Giacomo Scalari
12:15-12:45	Optical neural networks in the quantum domain	Alexander Lvovsky	University of Oxford	
12:45-13:15	Coherence and Critical Scaling of a Quantum Gas of Photons	Martin Weitz	University of Bonn	
13:15-15:00	LUNCH			
15:00-15:30	Multiphoton Spatial Correlations	Fabrice Laussy	ICMM	Fabrice Laussy
15:30-16:00	Computing with an optomechanical oscillator	David Pedro Garcia	Material Science Institute - Madrid	
16:00-16:30	Polariton Waveguides	Daniel Sanvitto	Istituto di Nanotecnologia – CNR Nanotec	
16:30-17:00	Quantized nonlinear soliton transport via topological boundary mode instabilities	Oded Zilberberg	University of Konstanz	
17:00-17:45	COFFEE BREAK			

The Hybrid Photonics and Materials Conference 2026 - Paros

Day 5 - HPM 2026 - FRIDAY, 2 October 2026

Time	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Pushing the Physics of GaAs/AlGaAs Polariton Microcavity Structures	David Snoke	University of Pittsburgh	Dario Ballarini
09:30-10:00	Dimensionality-Dependent Bistability and Bogoliubov Correlations in Polariton Quantum Fluids	Alberto Bramati	Sorbonne University and CNRS	
10:00-10:30	Teaching Tensor Networks to Design Quantum Photonic Integrated Circuits	Mathias Van Regemotel	Hewlett Packard Enterprise	
10:30-11:00	A silicon photonics quantum circuit empowered by photonic quantum memristors	Alessio Baldazzi	University of Trento	
11:00-11:45	COFFEE BREAK			
11:45-12:15	Driven-dissipative phase transition in a dense ensemble of saturable absorbers	Dimitrios Trypogeorgos	CNR Nanotec	David Snoke
12:15-12:45	Dynamical universality in a driven quantum fluid of light	Dario Ballarini	CNR-NANOTEC	
12:45-13:15	Cost-Efficient Deterministic Strain Engineering of Quantum Emitters in Two-Dimensional Semiconductors	Snezana Lazic Knezevic	Universidad Autónoma de Madrid	
13:15-15:00	LUNCH			
15:00-15:30	Superconducting coupled-cavity arrays as structured photonic baths for quantum electrodynamics	Pasquale Scarlino	EPFL, HQC	Natalia Berloff
15:30-16:00	Rotating polariton ring-shaped spin domains	Nina Voronova	National Research Nuclear University MEPhI	
16:00-16:30	Instance-wise count certificates for heuristic and analogue optimisers	Jona Nagerl	University of Cambridge	
16:30-17:15	COFFEE BREAK			
17:15-17:45	Optical Implementation of Equilibrium Propagation Using Spatial Photonic Ising Machines	Daniele Veraldi	Sapienza, University of Rome	Pavlos Savvidis
17:45-18:15	Thermal Squeezed States For Training Of Polariton Neural Network	Matteo Gadani	Laboratoire Kastler Brossel - Sorbonne Université	
18:15	Conference closing session			