

PROGRAMME

	MONDAY 25 September '17	TUESDAY 26 September '17	WEDNESDAY 27 September '17	THURSDAY 28 September '17	FRIDAY 29 September '17
08:30-09:00	OPENING				
09:00-09:30	Mete Atature	Keith Nelson	Wolf von Klitzing	Georgy Shlyapnikov	Ivan Shelykh
09:30-10:00	Vincenzo Savona	Guillaume Malpuech	Joachim Brand	Simone De Liberato	Hayder Salman
10:00-10:30	Carlos Tejedor	Peter Kirton	Makoto Tsubota	Nikolaos Proukakis	Andrew Ramsay
10:30-11:00	COFFEE BREAK				Zhanghai Chen
11:00-11:30	Ulrich Schneider	Reiner Mahrt	Sven Hoefling	Martin Weitz	CLOSING REMARKS
11:30-12:00	Nir Davidson	Michal Matuszewski	Luis Vina	Malte Gather	
12:00-12:30	Cristiano Ciuti	David Lidzey	Barbara Pietka	Marzena Szymanska	
12:30-13:00	Natalia Berloff	Giacomo Scalari	Marek Potemski	David Snoke	
13:00-14:30	LUNCH				
14:30-15:00	Pavlos Lagoudakis	Alberto Bramati	Excursion To Delos	Poster Session Drinks	Project Meetings
15:00-15:30	Dimitris Angelakis	Michiel Wouters			
15:30-16:00	Hamid Ohadi	Maria Vladimirova			
16:00-16:30	COFFEE BREAK				
16:30-17:00	Angela Vasanelli	Paul Eastham			
17:00-17:30	Paulo V. Santos	Alexei Kavokin			
17:30-17:50	Natalia Bobrovska	Jacek Szczytko			
17:50-18:10	Nicola Bartolo	Anton Zasedatelev			
19:30	Conference Dinner				

Day 1 - HPM 2017 - MONDAY, 25 September '17

07:30-07:45	Bus collection from Petinos Hotel and transfer to Saint John Hotel			
07:45-08:00	Arrival to Saint John Hotel, registration			
08:30-09:00	HPM 2017 Official Opening	Konstantinos Kouka	Mayor of Mykonos	
		Natalia Berloff	University of Cambridge, UK/SkolTech, Russia	
	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Novel quantum light sources in layered materials	Mete Atature	University of Cambridge, UK	Natalia Berloff
09:30-10:00	Spontaneous symmetry breaking in a two-photon-driven Bose-Hubbard system	Vincenzo Savona	Ecole Polytechnique Fédérale de Lausanne, Switzerland	
10:00-10:30	Leggett-Garg inequalities for probing quantum phase transitions in 1D systems	Carlos Tejedor	Universidad Autonoma de Madrid, Spain	
10:30-11:00	COFFEE BREAK			
11:00-11:30	Interferometric probes of band topology in synthetic quantum matter	Ulrich Schneider	University of Cambridge, UK	Pavlos Lagoudakis
11:30-12:00	Solving hard computational problems with coupled lasers	Nir Davidson	Weizmann Institute of Science, Israel	
12:00-12:30	Critical slowing down in nonlinear photonic lattices	Cristiano Ciuti	University Paris Diderot-Paris 7, France	
12:30-13:00	Polariton condensates and NP-hard problems	Natalia Berloff	University of Cambridge, UK/SkolTech, Russia	
13:00-14:30	LUNCH			
14:30-15:00	Polariton graphs: a novel platform for analogue simulators	Pavlos Lagoudakis	University of Southampton, UK/SkolTech, Russia	Nir Davidson
15:00-15:30	Spectral signatures of many-body localization with interacting photons: An experiment	Dimitris Angelakis	University of Crete & FORTH, Greece/and Centre for Quantum Technologies, Singapore	
15:30-16:00	Non-equilibrium phases of a spin chain of polariton condensates	Hamid Ohadi	University of Cambridge, UK	
16:00-16:30	COFFEE BREAK			
16:30-17:00	Superradiant thermal emitters	Angela Vasanelli	University Paris Diderot-Paris 7, France	Mete Atature
17:00-17:30	Tunable lattices for excitons and polariton condensates	Paulo V. Santos	Paul-Drude-Institut für Festkörperelektronik, Germany	
17:30-17:50	Adiabaticity and fingering in exciton-polariton condensates	Natalia Bobrovska	Institute of Physics Polish Academy of Sciences, Poland	
17:50-18:10	Vacuum-dressing of disordered Landau levels at the Fermi edge via ultrastrong light-matter coupling	Nicola Bartolo	University Paris Diderot-Paris 7, France	
19:30-21:30	Conference dinner at '1001 Nights' Restaurant at Saint John Hotel			
21:30	Transportation of delegates to Petinos Hotel			

Day 2 - HPM 2017 - TUESDAY, 26 September '17

08:15-08:30	Bus collection from Petinos to Saint John Hotel			
08:45	Arrival to Saint John Hotel			
	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Polaritonics with excitons, phonons, and magnons	Keith Nelson	MIT, USA	Alberto Bramati
09:30-10:00	Topological effects in Honeycomb polaritonic lattices	Guillaume Malpuech	CNRS, France	
10:00 -10:30	The effect of losses on the dicke superradiance transition	Peter Kirton	University of St Andrews, UK	
10:30-11:00	COFFEE BREAK			
11:00-11:30	Strongly confined exciton-polariton condensates at room temperature	Reiner Mahrt	Zurich Research Laboratory, Switzerland	Pavlos Savvidis
11:30-12:00	Dynamical instability of a non-equilibrium exciton-polariton condensate	Michal Matuszewski	Institute of Physics, Polish Academy of Sciences, Poland	
12:00-12:30	Polariton condensation in a dye-doped organic semiconductor microcavity	David Lidzey	University of Sheffield, UK	
12:30-13:00	Ultra strong THz light-matter coupling with Landau levels: transport measurements and nanocavities	Giacomo Scalari	ETH Zurich, Switzerland	
13:00-14:30	LUNCH			
14:30-15:00	Macroscopic propagation of stationary topological excitations in a polariton superfluid	Alberto Bramati	Laboratoire Kastler Brossel, UPMC, Paris, France	Guillaume Malpuech
15:00-15:30	Correlations and vortices in nonequilibrium polariton quantum fluids	Michiel Wouters	Antwerpen University, Belgium	
15:30-16:00	On the nature of light emission in polar GaN/(AlGa)N quantum wells	Maria Vladimirova	University of Montpellier, France	
16:00 –16:30	COFFEE BREAK			
16:30-17:00	The Josephson junction redux: non-equilibrium self-trapping in polariton condensates	Paul Eastham	Trinity College Dublin, Ireland	Reiner Mahrt
17:00-17:30	Zitterbewegung of exciton polaritons	Alexei Kavokin	University of St Petersburg/University of Southampton, Russia/UK	
17:30-17:50	Dressing of exciton-polaritons with THz field - doubly dressed bosons	Jacek Szczytko	Faculty of Physics, University of Warsaw, Poland	
17:50 -18:10	Polariton amplifier in organic microcavities	Anton Zasedatelev	Center for Photonics and Quantum Materials, Skolkovo Institute of Science and Technology, Russia	
18:30	Transportation to Petinos Hotel			

Day 3 - HPM 2017 - WEDNESDAY, 27 September '17

08:15-08:30	Bus collection from Petinos to Saint John Hotel			
08:45	Arrival to Saint John Hotel			
	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Matterwave interferometers: from atomtronics to space	Wolf von Klitzing	Institute of Electronic Structure and Laser, Crete	Sven Hoefling
09:30-10:00	Dark solitons in strongly-correlated and topological superfluids	Joachim Brand	Massey University, New Zealand	
10:00-10:30	Recent topics of quantum turbulence	Makoto Tsubota	Osaka City University, Japan	
10:30-11:00	COFFEE BREAK			
11:00-11:30	Dirac-cone and flatband dispersions in 2D-polariton lattices: Bandstructure formation of exciton polaritons in lattice potential landscapes	Sven Hoefling	University of St Andrews, UK	Dimitris Angelakis
11:30-12:00	Temperature dependence of the coherence in polariton condensates	Luis Vina	Universidad Autonoma de Madrid, Spain	
12:00-12:30	Semimagnetic exciton-polariton condensates in magnetic field	Barbara Pietka	University of Warsaw, Poland	
12:30-13:00	Optical properties of atomically thin transition metal dichalcogenides	Marek Potemski	CNRS, France	
13:00-14:30	LUNCH			
15:30	Bus transportation to port from Saint John Hotel			
16:30	Ferry from Mykonos Port to Delos			
19:30	Ferry from Delos to Mykonos Port & return to hotels			

Day 4 - HPM 2017 – THURSDAY, 28 September '17

08:15-08:30	Bus collection from Petinos to Saint John Hotel			
08:45	Arrival to Saint John Hotel			
	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Quantum information processing with cold atoms	Georgy Shlyapnikov	Ecole Normale Supérieure, France	Michal Matuszewski
09:30-10:00	Localized phonon polaritons: a novel platform for mid-infrared quantum polaritonics	Simone De Liberato	University of Southampton, UK	
10:00-10:30	Dynamical critical exponents and Kibble-Zurek physics in driven-dissipative quantum system	Nikolaos Proukakis	Newcastle University, UK	
10:30-11:00	COFFEE BREAK			
11:00-11:30	Calorimetry of a Bose-Einstein-condensed photon gas	Martin Weitz	University of Bonn, Germany	Alexei Kavokin
11:30-12:00	Unconventional nano-materials for polaritonics and solid-state lasers	Malte Gather	University of St Andrews, UK	
12:00-12:30	Polariton quantum fluids in and out of equilibrium	Marzena Szymanska	University College London, UK	
12:30-13:00	Current injection and ring oscillations in etched 1D polariton microcavity structures	David Snoke	University of Pittsburgh, USA	

13:00-14:30	LUNCH		
14:30-16:30	Poster Session		
	Spatial spin de-multiplexing in a polariton optical trap	Alexis Askitopoulos	University of Southampton, UK
	TBC	Tamsin Cookson	University of Southampton, UK
	Tuning the coupling strength and mode symmetry of photonic molecules using end-hole displacement	Qingqing Duan	University of Sheffield, UK
	Giant vortices of controlled multiplicity in polariton lattices	Kirill Kalinin	Skolkovo Institute of Science and Technology, Russia
	Phase ordering kinetics of a nonequilibrium exciton-polariton condensate	Michal Kulczykowski	Institute of Physics Polish Academy of Science, Poland
	Linear carbyne chains for 1D optoelectronics	Stella Kutrovskaya	Stoletovs' Vladimir State University, Russia
	Instability of exciton-polaritons system in semimagnetic semiconductor microcavity	Pawel Mietki	Institute of Physics Polish Academy of Science, Russia
	Investigation of topological defects with coupled lasers	Vishwa Pal	Weizmann Institute of Science, Israel
	TBC	Lucy Pickup	University of Southampton, UK
	TBC	Matteo Silva	University of Southampton, UK
	Fine-tuning light-matter coupling in organic microcavities	Laura Tropic	University of St Andrews, UK
	Coordinate-dependent mass and anisotropy effects of photon condensates in engineered mesoscopic cavities	Nina Voronova	National Research Nuclear University MEPhI, Russia
	Tuning across universalities with a driven open condensate	Alejandro Zamora	University College London, UK
	TBC	Yoseob Yoon	MIT, USA
17:00	Transportation to Petinos Hotel		

Day 5 - HPM 2017 - FRIDAY, 29 September '17				
08:15-08:30	Bus collection from Petinos to Saint John Hotel			
08:45	Arrival to Saint John Hotel			
	Presentation Title	Presenter	Affiliation	Chair
09:00-09:30	Polariton rings in nonlinear regime: analogs of Spin- Meissner effect and solitonic Aharonov- Bohm effect	Ivan Shelykh	ITMO University, Russia	Luis Vina
09:30-10:00	Long-range ordering of vortex excitations in a two-dimensional superfluid far from equilibrium	Hayder Salman	University of East Anglia, UK	
10:00-10:30	Cavities, defects and E-jet printers	Andrew Ramsay	Hitachi Cambridge Lab, UK	
10:30-11:00	Fano resonance of polariton and second harmonic generation	Zhanghai Chen	Fudan University, China	
11:00-11:30	Closing remarks and departure			
12:00-14:00	Greek-Russian Bilateral Project Meeting (Polisimulator)			