

QLIN-2024

International Conference in
Quantum Light & Nanophysics



Program

Abu Dhabi - United Arab Emirates January 9th - 14th, 2024

MIFP - Mediterranean Institute of Fundamental Physics

First day: 9th January

Start	End	Speaker	Title	Chairman
9:00	09:45		Registration desk	
9:45	10:00	Giannini Vincenzo	Opening conference	
10:00	10:30	Illarionov Yury	Combining the recent progress for 2D transistors and photodetectors: device layouts, channels, insulators	Pereira Mauro
10:30	11:00	Durnev Mikhail	Nonlinear two-dimensional transport driven by structured terahertz radiation	
11:00	11:30		Coffee Break	
11:30	12:00	Blain Ben	Soliton versus single-photon quantum dynamics in arrays of superconducting qubits	Illarionov Yury
12:00	12:30	Braggio Alessandro	Non-local thermoelectricity in topological and interacting nanodevices	
12:30	13:00	Fedorov Aleksey	Complex quantum systems: From characterization to control	
13:00	14:00		Lunch	
14:00	14:30	Pereira Mauro	Quantum transport and optics with applications to noninvasive medical diagnostics and novel photonic functionalities	Braggio Alessandro
14:30	15:00	De Liberato Simone	Weaving quantum materials with light	
15:00	15:30	Correa Duarte Miguel Angel	Hot-spots in Plasmonic Photocatalysis	
15:30	16:00		Coffee Break	
16:00	18:00	Round Table	The quantum era is arriving and it will be transformational!	
18:00	19:00		Free time	
19:00	21:00		Welcome Cocktail	

Second day: 10th January

Start	End	Speaker	Title	Chairman
10:00	10:20	Eramo Emanuele Fernando	Is it Possible to Create a Quantum Economics	Maffucci Antonio
10:20	10:40	Di Carlo Flavio	How quantitative finance can benefit from quantum physics	
10:40	11:00	Hemmingsson Elsa	Project Management Essentials: From Concept to Completion	
11:00	11:30		Coffee Break	
11:30	11:50	Di Carlo Giordano	Light and eye, a quantum link	
11:50	12:10	Jorgensen Helene	Impact of Quantum Technology on Space Travel	
12:10	13:45		Lunch	
14:00	14:20		Appointment in the reception of Raddison Hotel	
14:30	21:30		Escursion	

Third day: 11th January

Start	End	Speaker	Title	Chairman
9:30	10:00	Toropov Alexey	Quantum dot photon sources for quantum computing and quantum communications	Shubina Tatiana
10:00	10:30	Lazic Snezana	Dynamic tuning of quantum light emission from GaN/InGaN nanowire quantum dots by surface acoustic waves	
10:30	11:00	Kozlov Vadiim	Spin Noise of Perovskite nanocrystal-embedded glasses	
11:00	11:30		Coffee Break	
11:30	12:00	Kotova Lyubov	Polarized photoluminescence and g-factor in an ensemble of quantum dots in magnetic fields	De Liberato Simone
12:00	12:30	Rakhlin Maxim	InAs/AlGaAs quantum dots in a photonic nanoantenna for single-photon emission in a red spectral range	
12:30	13:00	Smirnov Dmitry	Generation of many body entangled states of photons and nuclei in quantum dots	
13:00	14:30		Lunch	
14:30	15:00	Serov Yuriy	Measurement of anisotropic spin dynamics in single InAs/GaAs QDs	Barettin Daniele
15:00	15:30	De la Fuente Leis Germán F.	Laser induced nanostructures under different pulse duration and wavelength regimes	
15:30	16:00		Coffee Break	
16:00	17:30	Round Table	Quantum Horizons: Navigating the Frontiers of Physics	
17:30	19:00		Free time	
19:00	22:00		Gala dinner	

Fourth day: 12th January

Start	End	Speaker	Title	Chairman
9:30	10:00	Akimov Alexey	Color center in diamond and in hexagonal boron nitride	De la Fuente Leis Germán F.
10:00	10:30	Savenko Ivan	Photoinduced Anomalous Hall Effect in 2D Superconductors	
10:30	11:00	Sun Jianwu	High-quality Graphene on Cubic Silicon Carbide for Conversion of Solar Energy into Renewable Fuels	
11:00	11:30		Coffee Break	
11:30	12:00	Barettin Daniele	Three degrees of quantum confinement in Wurtzite InGaAs/AlGaAs nanostructures	
12:00	12:30	Alvarez Puebla Ramon Angel	Composites Nanoparticle-Metal-organic Frameworks for SERS sensing and photocatalysis	
12:30	13:00	Pozina Galia	Fröhlich resonance in hybrid GaN Ag nanostructures	Portnoi Mikhail
13:00	14:30		Lunch	
14:30	15:00	Krizhanovskii Dmitry	Linear and nonlinear optical properties of polaritons in modulated microresonators and slab waveguide systems	
15:00	15:30	Kazanov Dmitrii	Acoustic Purcell effect in cylindrical microresonators for efficient single photon source	
15:30	16:00		Coffee Break	
16:00	16:30	Gobind Das	Structural Modulation of 3D Plasmonic Crystal Using Nanosphere Lithography for biosensor applications	
16:30	17:30	Round Table	Projects proposal MCSA Horizon Europe 2024	
17:30	00:00		Free time	

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Fifth day: 13th January

Start	End	Speaker	Title	Chairman
9:30	10:00	Galimov Aidar	Highly polarized single-photon emission from InAs/GaAs quantum dots in elliptical micropillars	Krizhanovskii Dmitry
10:00	10:30	Shubina Tatiana	Strain effects in van der Waals nanostructures	
10:30	11:00	Glazov Mikhail	Lamb shift in van der Waals heterostructures	
11:00	11:30		Coffee Break	
11:30	12:00	Semina Marina	Excitons and trions with negative effective masses in 2D semiconductors	Toropov Alexey
12:00	12:30	Portnoi Mikhail	Dipole transitions and excitons in carbynes	
12:30	13:00	Baimuratov Anvar	Field-induced hybridization of moiré excitons	
13:00	14:30		Lunch	
14:30	15:00	Fitzgerald Jamie	The Impact of Dark Excitons On Polariton Dynamics In 2D Semiconductors	Tatiana Shubina
15:00	15:30	Maffucci Antonio	Electromagnetic and Electrothermal Properties of Industrial Graphene	
15:30	16:00		Coffee Break	
16:00	16:15	Conclusions		
16:15	18:00	Round Table	European University Alliance "NOVA" - Only invited	
18:00	00:00		Free time	

Fifth day: 14th January

Departure day