

NanoQIQO: School on Optics and Photonics

15 - 20 May, 2023

RAU, new building 7th floor, Lecture Hall named after H. Orbeli Yerevan, Armenia

	15 May Chairman: D. Hayrapetyan/H. Sargsyan
9:00 to 9:30	Registration
9:30 to 10:00	Opening Ceremony
10:00 to 11:00	Sotirious Baskoutas, Patras University, Greece Novel Nanomaterials: Challenges and Perspectives
11:00 to 11:30	Coffee Break
11:30 to 12:30	Nika Akopian , Technical University of Denmark, Denmark Multi-Qubit Photonic Devices
12:30 to 13:30	Lunch Break
13:30 to 14:30	Gabriel Bester, University of Hamburg, Germany Atomistic calculations of the optical properties of nanostructures
14:30 to 15:30	Emanuel Paspalakis, Patras University, Greece (online) Quantum optical effects in hybrid structures at the nanoscale
18:00 to 21:00	Welcome Dinner at Genacvale pandok*

^{*} address: Papazyan 23, Yerevan; web-page: https://genacvale.am/en/







	16 May Chairman: S. Baskoutas/P. Mantashyan
10:00 to 11:00	Michael Sigalas, Patras University, Greece Phononic Crystals: Controlling Elastic waves from nanometers to meters
11:00 to 11:30	Coffee Break
11:30 to 12:15	David Hayrapetyan , Russian-Armenian University, Armenia, Effect of Gaussian and Bessel laser beams on linear and nonlinear optical properties of vertically coupled cylindrical quantum dots
12:15 to 12:30	Group Photo
12:30 to 13:30	Lunch Break
13:30 to 14:30	Christos Garoufalis, Patras University, Greece Optical properties and electronic structure of perovskite nanoparticles from first principles calculation
14:30 to 15:30	Torben Steenbock , University of Hamburg, Germany Surfaces as a key factor for understanding the optical properties of CdSe nanocrystals
15:30 to 16:30	Hayk Sargsyan , Russian-Armenian University, Armenia Exactly solvable models for pair interacting gas in quantum dots
	17 May Chairman: G. Bester/Ch. Garoufalis
10:00 to 11:00	Ebrahim Karimi, University of Ottawa, Canada Structured Photons: Secure communications, Quantum Imaging and Photonics Simulators
11:00 to 11:30	Coffee Break
11:30 to 12:30	Zaiping Zeng, Henan University, China Modelling semiconductor quantum dots using large-scale density functional theory
12:30 to 13:30	Lunch Break







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13:30 to 14:30	Carlos Duque, Universidad de Antioquia, Colombia
	Theoretical modeling of excitons in conical-shaped heterostructures obtained via droplet epitaxy technique
14:30 to 15:30	Spyros Kosionis, Patras University, Greece (online)
	Resonance fluorescence and photon statistics in coupled quantum- photonic nanostructures
15:30 to 16:30	George Kalosakas, Patras University, Greece
	Strain and temperature dependence of the Raman G-band of graphene

	18 May	Chairman: N.	Yengibaryan/S.	Gavalajyan
10:00 to 10:30	Levon Hovhannisyan, Introduction to Azure Qu	•	ration	
10:30 to 11:00	Coffee Break			
11:00 to 12:00	Jayakumar Vaithiyash University, India (<i>online</i> Qiskit -Quantum Compu)		Presidency
12:00 to 12:30	David Khachatryan, Pa (<i>online</i>) Quantum Optimization a	•	omputing GmbH, A	Austria
12:30 to 13:00	Tigran Dadalyan , Azale See the world through A		` ,	
13:00 to 14:00	Lunch Break			
14:00 to 15:00	Students Talks			

	19 May	Chairman: G. Mantasnyan/A. Kostanyan
10:00 to 11:00		entsia Consultants, Luxemburg opportunities and proposal writing for young
11:00 to 11:30	Coffee Break	







Optics and Photonics 2023	
11:30 to 12:30	Giles Brandon, Intelligentsia Consultants, Luxemburg
	Horizon Europe funding opportunities and proposal writing for young researchers: Part 2
12:30 to 13:30	Lunch Break
13:30 to 14:30	Dilara Shayegan, University of Hamburg, Germany
	Profiling The University of Hamburg
	Case: External Funding Management (EU)
14:30 to 15:30	Hans Behringer, University of Hamburg, Germany (online)
14.30 to 13.30	Hamburg Research Centre for Ultrafast Imaging: Electrons, atoms and
	molecules in slow motion

20 May		
10:00 to 10:30	Paytsar Mantashyan, Russian-Armenian University, Armenia Talbot Effect in Quantum Dots Ensemble	
10:30 to 11:00	Astghik Kuzanyan, Institute for Physical Research, Armenia Thermoelectric Photodetectors	
11:00 to 11:30	Anna Ovvyan, University of Münster, Germany (online) Cavity Enhanced Hybrid Nanophotonic Circuits with Integrated Single Photon Sources	
11:30 to 13:00	Award and Closing Ceremony	
13:00 to 17:00	Social Event: Trip to Khor Virap Monastery	

Organizers and Sponsors













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