

15h30



Fondo Europeo de Desarrollo Regional Fundo Europeu de Desenvolvimento Regional





Mission 10 000: Quantum Science & Technologies

October 22nd - 24th of 2019 | INL, Braga, Portugal

NOTE: This is a tentative schedule, times listed are subject to change. Check back often for updates or subscribe to our newsletter at our website: https://nanogateway.eu/en/mission-quantum/

PROGRAMME | October 22nd, 2019

	PROGRAMME OCTOBER 22 , 201	3
8h45 - 9h10	Registration	
	OPENING SESSION	
9h15	Lars Montelius, Director-General INL	
	MORNING SESSION	
	KEYNOTE SPEAKER	
09h30	Frank Koppens, ICREA Professor, ERC Starting Grant Award, ERC Consolidator Grant A Quantum Nano-Optoelectronics Group Leader at ICFO	ward.
	INVITED TALK	
10h15	Rozema Lee, Faculty of Physics. University of Viena	Q. Plasmonics
	CONTRIBUTED TALK	
10h45	António Costa, Plasmons in graphene – superconductor heterostructures	
11h00	Coffee break	
	INVITED TALK	
11h30	Asger Mortensen, Professor & VILLUM Investigator program on Quantum Plasmonics University of Southern Denmark	Q. Plasmonics & Photonics
	CONTRIBUTED TALKS	
12h00	Sara Núñez Sánchez, Excitonic core-shell nanoparticles with plasmon-like response,	University of Vigo
12h15	William P. Wardley, Strong coupling between Surface Exciton Polaritons and complementary optical modes in multicomponent thin film structures, INL	Q. Imaging
12h30	Lunch break	Networking Opportunity
	AFTERNOON SESSION	
	INVITED TALK	
15h00	Joachim von Zanthier, Associate Professor and Group Leader of Quantum Optics and Institute of Optics, Information and Photonics. Friedrich-Alexander University Erlangen-N	
		Q. Imaging

CONTRIBUTED TALK

Jana Nieder, Temporal dynamics of hexagonal boron nitride single quantum emitters, INL









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15h45	POSTER SESSION & Coffe Break Collaboration opportunities				
	INVITED TALK				
17h15	Lucas Thiel, Research in the Quantum Sensing Group, Department of Physics University of Basel, Switzerland Q. Sensing				
	INVITED TALK				
17h45	Jorge Quereda Bernabeu, Nanotechnology Research Group, University of Salamanca Q. Sensing				
	PROGRAMME October 23 rd , 2019				
8h30 - 9h00	Registration				
	MORNING SESSION				
	INVITED TALK				
9h15	Roser Valentí, Institute for Theoretical Physics Universtity of Frankfurt Q. Topological Materials				
	INVITED TALK				
9h45	Ramón Aguado, Theory of Quantum Materials and Solid State Quantum Technologies group leader at Materials Science Institute of Madrid (ICMM) ICMM - CSIC Q. Topological Materials				
	CONTRIBUTED TALKS				
10h15	Bruno Mera, Topologically protected quantization of work, IST - Instituto Superior Técnico O. Topological Materials				
10h30	Marcel Claro, Topological insulator quantum dots grown by molecular beam epitaxy, INL				
10h45	Gonçalo Catarina, Anomalous Kerr effect in two-dimensional massive Dirac materials,				
11h00	Coffee break				
	INVITED TALK				
11h30	Juan José García Ripoll, Instituto de Física Fundamental (IFF) IFF Madrid - CSIC Q. Information & Q. Simulation				
	INVITED TALK				
12h00	Fabio Sciarrino, Associate Professor in the Department of Physics University Sapienza Q. Information & Q. Simulation				











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12h30	Lunch break	Networking Opportunity				
	AFTERNOON SESSION					
KEYNOTE SPEAKER						
15h00	Jeanie Lau, Professor of Physics UC Riverside, California	Q. Materials				
	CONTRIBUTED TALK					
15h45	Mario Amado, Competition between canted antiferromagnetic and spin-polarized quantum Hall states at v = 0 in single layer graphene on a ferrimagnetic insulator, University of Salamanca and University of Cambridge	Q. Materials				
16h	Alejandro Molina, Excitonic effects on the magneto-optical properties of ferromagnetic 2D materials, INL	Q. Topological Materials				
16h15	POSTER SESSION & Coffe Break	Collaboration opportunities				
	INVITED TALK					
17h15	Tatiana Rappoport, Associate professor at the Physics Institute of the Federal University of Rio de Janeiro	versity of Rio de Janeiro Q. Materials				
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	Tatiana Rappoport, Associate professor at the Physics Institute of the Federal University of Rio de Janeiro CONTRIBUTED TALK					
17h45	Tatiana Rappoport, Associate professor at the Physics Institute of the Federal University of Rio de Janeiro CONTRIBUTED TALK Leonardo Novo, Quantum advantage from energy measurements, ULB Brussels	Q. Materials Q. Computing				
17h45 18h	Tatiana Rappoport, Associate professor at the Physics Institute of the Federal University of Rio de Janeiro CONTRIBUTED TALK Leonardo Novo, Quantum advantage from energy measurements, ULB Brussels Bruno Murta, Quantum Berry phase estimation, INL	Q. Computing rsity of Aveiro				
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	CONTRIBUTED TALKS			
10h30 10h45	Carlos Tavares, A dynamic logic for QASM programs, INESC TEC Ricardo Faleiro, Quantum Kolmogorov complexity of quantum states and correlations, IT Lisbon	Q. Information & Q. Programming		
11h00	Coffee break			
	INVITED TALK			
11h30	Artur García-Sáez, Barcelona Supercomputing Center	Q. Computing		
CONTRIBUTED TALKS				
12h00 12h15 12h30	Mikhail I. Vasilevskiy Henrique Silvério Pedro Cruz	Q. Computing		
	CLOSING REMARKS & AWARD SESSION			
12h45	Best Poster Presentation and Best contributed Talk by Joaquín Ro	ossier, INL		
13h	Lunch break	Networking Opportunity		
ROUNDTABLE DISCUSSION				
14h	Scaling Quantum Innovations: now and tomorro	w		

AFTERNOON PARALLEL SESSIONS

HANDS-ON QUANTUM COMPUTING*				
15h00	Joaquín Rossier, INL			
	Luís Barbosa, INL			
* 1 :: 4 -4 20	articipants upon confirmation by the organization.			

COMMUNICATION SYMPOSIUM WHY SCIENCE COMMUNICATION MATTERS? 15h00 Elisabeth Nilsson, Learning Organization Developer INL **INVITED TALK** 15h15 Francisco Villatoro, Associate Professor in the **Department of Computing Science and Language** Universtity of Málaga **INVITED TALK** 16h00

Enrique Sahagún,

Scixel.es