

	Wednesday the 16th of November 2022	Thursday the 17th of November 2022	Friday the 18th of November 2022
8:00	Conference opening - <i>Collection of badges in the main hall</i>		
8:30	Welcome - Anaïs Dréau & Sylvain Ravets		
9:00	Retour sur 13 ans d'IQFA - S. Tanzilli	Tutorial - TEM - Atac Imamoglu (ETH Zurich, CH): <i>Kinetic magnetism in moire materials</i>	Tutorial - QCOM - Benjamin Brecht (Paderborn University, DE): <i>High-dimensional quantum communication with temporal modes</i>
9:30	Tutorial - QPAC - Richard Kueng (Johannes Kepler Universität Linz, AT): <i>TBA</i>	TEM - S. Zihlmann (CEA Grenoble, FR): <i>Coherent coupling of a microwave photon to a hole spin in silicon</i>	QCOM - J.-D. Bancal (IPhT, CEA, FR): <i>Experimental quantum key distribution certified by Bell's theorem</i>
10:00		Coffee break	Coffee break
10:30	Coffee break		
11:00	Invited talk - QPAC - Ulrik Andersen (DTU, DK) : <i>Photonic Quantum Computing with Continuous Variables</i>	TEM - T. Ray (CNRS, Collège de Fr., PSL Univ., FR): <i>Optical switching with cold atoms trapped around a nanofiber</i>	QCOM - P. Hilaire (Quandela, FR & U. Leiden, NL) <i>Fundamental loss-tolerance thresholds of logical linear-optical Bell state measurements</i>
11:30	QPAC - A. Clément (CNRS, INRIA, FR): <i>From a Formal Framework for Optical Circuits to a Complete Equational Theory for Quantum Circuits</i>	TEM - Y. Seis (Niels Bohr Institute, DK & ENS Lyon , FR): <i>Ground state cooling of an ultracoherent electromechanical system</i>	QCOM - D. Fioretto (CNRS, U.P.-Saclay, FR): <i>High-rate entanglement between a semiconductor spin and indistinguishable photons</i>
12:00	QPAC - A. Marquet (ENS Lyon, FR): <i>Passive two-photon dissipation for bit-flip error correction of a cat code</i>	TEM - A. Rodriguez (CNRS, U.P.-Saclay, FR): <i>Polarization-controlled Brillouin scattering in elliptical optophononic micropillar resonator</i>	QSIM - F. Baboux (Univ. Paris Cité, FR): <i>Generation of spatially entangled states of light in nonlinear waveguide arrays</i>
12:30	Lunch	Lunch	Lunch
14:00	Tutorial - FQA - Ana Belen Sainz (University of Gdansk, PL): <i>Quantum resources from non-classical phenomena</i>	Tutorial - QMET - Olivier Arcizet (Institut Néel, FR): <i>Ultrasensitive vectorial force field imaging with suspended nanowires : exploration of proximity forces and cavity nano-optomechanics at small photon number</i>	Invited talk - QSIM - Quentin Glorieux (PSL Univ., FR): <i>Non-equilibrium physics and turbulence in a fluid of light</i>
14:30			QSIM - R. Dubessy (Univ. Paris 13, FR): <i>A fast rotating superfluid on a curved surface</i>
15:00	FQA - M.-O. Renou (ICFO, ES): <i>Quantum theory needs complex numbers</i>	QMET - T. Clua-Provost (CNRS, Univ. Montpellier, FR): <i>Quantum sensing with spin defects hosted in a van der Waals material</i>	QSIM - A. Le Boité (CNRS, Univ. Paris Cité, FR): <i>Non-Gaussian superradiant transition via three-body ultrastrong coupling</i>
15:30	Coffee break	Coffee break	Closing session - A. Dréau
16:00	Invited talk - FQA - Natalia Ares (Univ. of Oxford, UK): <i>Accessing thermodynamic quantities at the nanoscale</i>	Invited talk - QMET - Akash Dixit (NIST, USA): <i>Searching for Dark Matter with Superconducting Qubits</i>	
16:30	FQA - P.-E. Emeriau (Quandela, FR): <i>Contextuality and Wigner negativity are equivalent for continuous-variable measurements</i>	QMET - R. Assouly (ENS Lyon, FR): <i>Demonstration of Quantum Advantage in Microwave Quantum Radar</i>	
17:00	FQA - R. Mothe (CNRS, Univ. Grenoble Alpes, FR): <i>Indefinite causal order strategies in quantum metrology</i>	QMET - A. Louchet-Chauvet (CNRS, ESPCI, FR): <i>High frequency vibration sensing in cryostats</i>	
17:30	Poster session 1	Poster session 2	
19:30		Banquet	