



## Colloquium IQFA'X, CNRS Headquarters, November 13-15, 2019

	Wednesday the 13th of November 2019	Thursday the 14th of November 2019	Friday the 15th of November 2019
09:00	Welcome - S. Tanzilli & A. Lambrecht (CNRS/INP)	<i>Tutorial</i> - QCOM - T. Northup (Univ. Innsbruck, AT) : Trapped ions for quantum networks	<i>Tutorial</i> - QPAC - J. Home (ETH Zurich, CH) : <i>Quantum error correction in ion traps</i>
09:30	<i>Tutorial</i> - QCOM/QSIM - P. Senellart (CNRS, Univ. Paris Saclay, FR): <i>Pure quantum light generation in the solid-state</i>		
10:00		QCOM - M. Schiavon (Univ. Padova, IT & Sorbonne Univ., FR): <i>Chip-based daylight quantum-key-distribution at 1550 nm</i>	QPAC - B. Jadot (CNRS, Univ. Grenoble Alpes, FR): <i>Remote spin entanglement in semiconductor quantum circuits</i>
10:30	Coffee break	Coffee break	Coffee break
11:00	<i>Invited Talk</i> - QCOM/QSIM - V. Parigi (Sorbonne Université, Paris, FR): <i>Continuous variables quantum complex networks</i>	<i>Tutorial</i> - QCOM - G. Ribordy (ID Quantique, CH) : <i>Quantum-safe cryptography, from research to industry</i>	<i>Invited Talk</i> - QCOM - D. Efetov (ICFO, Barcelona, ES) : <i>2D material enabled quantum networks</i>
11:30	QCOM - R. Parekh (Sorbonne Univ., FR & Indian Inst. Techno., Roorkee, IN): <i>Quantum protocol zoo</i>		QCOM - D. Oser (CNRS, Univ. Paris-Saclay, FR): <i>High-quality entanglement on a silicon chip</i>
12:00	QMET - E. Albertinale (CEA-Saclay, FR): <i>An irreversible qubit-photon coupling for the detection of itinerant microwave photons</i>	QCOM - N. Sangouard (Univ. Basel, CH): <i>Self-testing - a trustworthy certification tool for quantum communications</i>	QPAC/QCOM - B. Pingault (Univ. Cambridge, UK): <i>Transform-limited photons from a long-lived tin-vacancy spin in diamond</i>
12:30	Lunch	Lunch	Lunch
14:00	<i>Tutorial</i> - QMET - S. Gröblacher (TU Delft, NL): <i>Quantum acoustic experiments</i>	<i>Tutorial</i> - QPAC - A. Montanaro (Univ. Bristol, UK) : <i>Quantum algorithms: an overview</i>	FQA - S. Restuccia (Univ. Glasgow, UK): <i>Photon bunching in a rotating reference frame</i>
14:30			FQA - A. Peugeot (CEA-Saclay, FR): <i>Quantum microwaves with a dc-biased Josephson junction</i>
15:00	QMET - V. Cimini (Univ. Roma, IT): <i>Tracking enzymatic activity with quantum light</i>	QPAC - P. Campagne-Ibarcq (Yale Univ., USA): <i>A fully stabilised logical quantum bit encoded in grid states of a superconducting cavity</i>	FQA - B. Pointard (IOGS, FR): <i>Quantum storage of one-photon and two-photon Fock states with an all-optical quantum memory</i>
15:30	Coffee break	Coffee break	Closing session - S. Tanzilli
16:00	<i>Invited Talk</i> - QMET - S. Nascimbene (Collège de France, Paris, FR) : <i>Quantum-enhanced sensing using non-classical spin states of a highly magnetic atom</i>	<i>Tutorial</i> - FQA - A. Acin (ICFO, Barcelona, ES) : <i>Device-independent quantum information processing</i>	 
16:30	QMET - R. Geiger (CNRS, Univ. PSL, Sorbonne Univ., FR): <i>High-sensitivity inertial measurements by cold-atom interferometry</i>		
17:00	Poster session 1	Poster session 2	
19:00		Banquet	