

GDR - IQFA Workshop Néel-Grenoble 2012	Wednesday 28-Nov	Thursday 29-Nov	Friday 30-Nov
8h30 - 9h	Opening	ART Quantum Measurement (QMES) & Decoherence (QMES-DECO) Invited lecture: Matteo Paris, Dip. Fisica - Università Milano <i>Quantum estimation for quantum technology</i>	ART New Devices for Qbit Generation (NDQG) & QMES-DECO Invited lecture: Joerg Wrachtrup, Institute of Physics, Stuttgart Uni. <i>Integrated quantum spin systems</i>
9h - 9h30	ART Coherent Manipulation of Qbits (CMQ) Invited lecture: Christian Roos, IQOQI Innsbruck <i>Engineering coherent and dissipative dynamics in strings of trapped ions</i>		
9h30 - 10h			
10h - 10h30	CMQ - Philippe Campagne-Ibarq, LPA-ENS Paris, <i>Controlling the trajectory of a superconducting qubit by measurement based feedback</i>	QMES-DECO - Aurélien Kuhn, LKB-ENS Paris, <i>Cavity Optomechanics with Micromirrors</i>	CMQ - Anaïs Dréau, LPQM-ENS Cachan, <i>Single-shot readout of multiple nuclear spin qubits in diamond under ambient conditions</i>
10h30 - 11h	Coffe break	Coffe break	Coffe break
11h - 11h30	CMQ - Jacek Kasprzak, Institut Néel Grenoble, <i>Microcavity controlled coherent coupling of quantum dots</i>	ART Entanglement (ENT) Invited lecture: Nicolas Brunner, Dep. Theoretical Physics - Uni. Geneva <i>Nonlocality in quantum physics and beyond</i>	NDQG - Romain Thalineau, Institut Néel Grenoble, <i>From a SWAP gate to a C-phase gate with single spin qubits</i>
11h30 - 12h	ART Quantum Communication (QCOM) & New Devices for Qbit Generation (NDQG) Invited lecture: Philip Walther, Faculty of Physics - Uni Vienna <i>Quantum Cloud Computing, Quantum Discord as Resource and Photonic Quantum Simulation</i>		NDQG - Matias Urdampilleta, Institut Néel Grenoble, <i>Electronic and nuclear spin read-out of a single-molecule magnet using a carbon nanotube quantum dot</i>
12h - 12h30			QMES-DECO - Maria Chamorro, INSP Paris, <i>Determination of the T2 of the confined spin hole in an InAs/GaAs quantum dot by spin mode-locking</i>
12h30 - 14h	Lunch	Lunch	Lunch
14h - 14h30	QCOM - Paul Jouguet, SeQureNet & LTCI Paris, <i>Experimental demonstration of long-distance continuous-variable quantum key distribution</i>	ENT - Olivier Morin, LKB-ENS Paris, <i>A source of high-fidelity heralded single-photons and a novel hybrid witness for single-photon entanglement</i>	ART Quantum Processing (QP) Invited lecture: Jiannis Pachos, School of Physics and Astro.- Uni. Leeds <i>Topological Quantum Computation</i>
14h30 - 15h	QCOM - Aikaterini Mandilara, ISMO Orsay & Uni. Libre Brussels, <i>Quantum bit commitment with Continuous variables</i>	ART Quantum Information Storage (QIS) Invited lecture: Alex Kuzmich, Georgia Tech <i>Quantum memory, single photons, and collective dynamics with an ultra-cold atomic gas</i>	
15h - 15h30	OTHER - Andreas Eckstein, MPQ Paris, <i>Controlling quantum light pulses with spectrally engineered $\chi(2)$-nonlinear interactions</i>		
15h30 - 16h	NDQG - Julien Claudon, CEA Grenoble, <i>The photonic trumpet: Broadband dielectric antenna for efficient coupling between a solid-state quantum light emitter and a Gaussian beam</i>	QIS - Yuimaru Kubo, CEA-Saclay, <i>Hybrid Quantum Circuit with a Superconducting Qubit and Electron Spin Ensemble</i>	QP - Giulia Ferrini, LKB-ENS Paris, <i>Multimode homodyne detection as a tool for cluster state generation and gaussian quantum computation</i>
16h - 16h30	Coffe break	Coffe break	OTHER - Valentina Parigi, LCFIO Palaiseau, <i>Measurement of giant dispersive optical non-linearities and non-classical state generation in an ensemble of cold Rydberg atoms</i>
16h30 - 17h	Poster Session	ART Foundations of Quantum Information (FOUND) Invited lecture: Valtko Vedral, CQT Singapore <i>Maxwell's demons, information and non-equilibrium quantum thermodynamics</i>	Closing
17h - 17h30			FOUND - Florian Kaiser, LPMC Nice, <i>Entanglement-enabled quantum delayed choice experiment</i>
17h30 - 18h		FOUND - Charles Ci Wen Lim, GAP Geneva, <i>Device-independent Test of Uncertainty Principles and its Application to Quantum Cryptography</i>	
18h - 18h30			
18h30 - 19h			
20h - 22h		Dinner of the Workshop	

