

EnIQMa - Entangled Interacting Quantum Matter - 2018

Monday, Nov. 19th		Tuesday, Nov. 20th		Wednesday, Nov. 21st	
			Session 4		Session 8
9h00-9h30		9h00-9h30	David GUERY-ODELIN (Univ. Paul Sabatier Toulouse) <i>Phase transition and cooling in optical lattices</i>	9h00-9h30	Michel BRUNE (LKB Paris) <i>Toward a trapped circular Rydberg atoms quantum simulator</i>
9h30-10h00		9h30-10h00	Nicolas REGNAULT (LPA Paris) TBA	9h30-10h00	Guido PUPILLO (Univ. Strasbourg) <i>Algebraic localization of disordered long-range quantum models</i>
10h00-10h30		10h00-10h30	Philipp TREUTLEIN (Uni Basel) <i>Einstein-Podolsky-Rosen steering and many-body Bell correlations in a BEC</i>	10h00-10h30	Helmut STROBEL (Uni Heidelberg) <i>EPR entanglement and universal dynamics in spinor Bose gases</i>
10h30-11h00		10h30-11h00	Coffee break	10h30-11h00	Coffee break
11h00-11h30	Welcome		Session 5		Session 9
	Session 1	11h00-11h30	Nicolas DUPUIS (LPTMC Paris) <i>Glassy behavior of the Bose-glass phase of 1D disordered bosons</i>	11h00-11h30	Alice SINATRA (LKB Paris) <i>Phase coherence of a harmonically trapped Bose condensed gas, and spin-squeezing of bosonic atoms in a lattice</i>
11h30-12h00	Laura CORMAN (ETH Zürich) <i>Beyond particle transport at an atomic quantum point contact: thermoelectric effects and spin control</i>	11h30-12h00	Nicolas MACE (Univ. Paul Sabatier Toulouse) <i>Many-body localization in a quasiperiodic Fibonacci chain</i>	11h30-12h00	Luca PEZZE (INO - QSTAR Florence) <i>Multipartite entanglement tomography of spin and topological systems</i>
12h00-12h30	Isabelle BOUCHOULE (Institut d'Optique, Palaiseau) <i>Cooling a Bose gas by losses</i>	12h00-12h30	Jakob REICHEL (LKB Paris) <i>Cavity-mediated many-particle entanglement in ensembles of atomic qubits</i>	12h00-12h30	Carlos GARRIDO ALZAR (SYRTE Paris) <i>Spontaneous spin squeezing in a two-component Rb BEC</i>
12h30-13h00	Laurent VERNAC (Univ. Paris XIII) <i>Out of equilibrium spin dynamics in chromium quantum gases</i>	12h30	Lunch break	12h30	Lunch break
13h00	Lunch break				
	Session 2		Session 6		Session 10
14h30-15h00	Chris WESTBROOK (Institut d'Optique, Palaiseau) <i>Two particle interference experiments with atoms</i>	14h30-15h00	Maurizio FAGOTTI (LPTMS Orsay) <i>An introduction to generalized hydrodynamics in integrable systems</i>	14h30-15h00	Laurent SANCHEZ-PALENCIA (Ecole Polytechnique) <i>Out-of-equilibrium dynamics of strongly-correlated quantum systems</i>
15h00-15h30	Cristiano CIUTI (Univ. Paris Diderot) <i>Driven open quantum lattices</i>	15h00-15h30	Jérôme DUBAIL (University of Nancy) <i>Generalised HydroDynamics on an Atom Chip</i>	15h00-15h30	Philipp HAUKE (Uni Heidelberg) <i>Towards quantum simulating the Schwinger model: Dynamical topological quantum phase transitions at strong coupling</i>
15h30-16h00	Jacqueline BLOCH (LPN Marcoussis) <i>Towards many-body physics with exciton-polariton lattices</i>	15h30-16h00	Helène PERRIN (Univ. Paris XIII) <i>Rotating superfluids in bubbles and rings</i>	15h30-16h00	Thierry LAHAYE (Institut d'Optique, Palaiseau) <i>Quantum simulation of topological matter in arrays of single Rydberg atoms</i>
16h00-16h30	Coffee break	16h00-16h30	Coffee break	16h00-16h30	Departure
	Session 3		Session 7		
16h30-17h00	Leonardo MAZZA (LPTMS Orsay) <i>Tight-binding models of parafermions</i>	16h30-17h00	Anna MINGUZZI (LPMGC Grenoble) <i>Josephson oscillations of strongly interacting 1D bosons</i>	16h30-17h00	
17h00-17h30	Jean-Marie STEPHAN (UCBL, Lyon) <i>Free fermions at the edge of interacting systems</i>	17h00-17h30	David CLEMENT (Institut d'Optique, Palaiseau) <i>Probing the 3D superfluid-to-Mott crossover with metastable Helium atoms</i>	17h00-17h30	
17h30-18h00	Giovanna MORIGI (Uni. des Saarlans) <i>Collective dynamics of atomic ensembles interacting via long-range forces</i>	17h30-18h00	Fabrice GERBIER (LKB Paris) <i>Anomalous momentum diffusion of strongly interacting bosons in optical lattices</i>	17h30-18h00	
18h00-	POSTER SESSION				
19h00	Buffet				

POSTERS

Nicola Bartolo	<i>Vacuum-dressed cavity magnetotransport of a 2D electron gas</i>	Raphaël Menu	<i>Sub-ballistic dynamics in disordered quantum spin systems</i>
Alberto Biella	<i>Dynamical properties of dissipative XYZ Heisenberg lattices</i>	Piero Naldesi	<i>Rise and fall of a bright soliton in an optical lattice</i>
Nicola Carlon Zambon	<i>Optically controlling the emission chirality of microlasers</i>	Joan Polo	<i>Damping of Josephson Oscillations in Strongly Correlated One-Dimensional Atomic Gases</i>
Valentin Crepel	<i>Model States for a Class of Chiral Topological Order Interface</i>	Brice Ravon	<i>Towards quantum simulation with laser-trapped circular Rydberg atoms</i>
Romain Daviet	<i>Non perturbative renormalization group approach to the sine-Gordon model</i>	Maximilian Schemmer	<i>Monitoring squeezed collective modes of a one-dimensional Bose gas after an interaction quench using density-ripple analysis</i>
Irénée Frérot	<i>Quantum correlations close to quantum critical points</i>	Jérôme Thibaut	<i>Variational Ansätze for frustrated quantum magnetism: reconstructing correlations, entanglement and the sign structure</i>
Yanliang Guo	<i>A rotating BEC in a connected trap and in a ring trap</i>	Tilman Zibold	<i>Spatial entanglement, EPR-steering and Bell correlations in a BEC</i>
Corneliu Malciu	<i>Braiding Majorana zero modes using quantum dots</i>		