

EnIQMa - Entangled Interacting Quantum Matter - 2017

	Monday, Nov. 27th	Tuesday, Nov. 28th
	Quantum dynamics (I)	Entanglement & co.
9h00-9h30	Welcome	Jakob Reichel (Paris) <i>Generating multiparticle entanglement with optical fiber microcavities</i>
9h30-10h00	Bruno Laburthe-Tolra (Paris) <i>Out-of-equilibrium magnetism of tilted dipoles</i>	Guillaume Roux (Orsay) <i>Spin models emulated on an analog quantum simulator with circular Rydberg states</i>
10h00-10h30	Johannes Schachenmayer (Strasbourg) <i>Simulating quantum many-body dynamics with discrete Wigner functions</i>	Marc Cheneau (Palaiseau) <i>Two-particle, four-mode interferometer for atoms</i>
10h30-11h00	Laurent Sanchez-Palencia (Palaiseau) <i>Universal scaling laws for correlation spreading in quantum systems with variable-range interactions</i>	Jérôme Dubail (Nancy) <i>Generalized Hydrodynamics of the 1d Bose gas in the Quantum Newton Cradle setup</i>
11h00-11h30	Coffee break	Coffee break
	Quantum dynamics (II)	Strong correlations & co.
11h30-12h00	Tarik Yefsah (Paris) <i>Probing Local Correlations in a Unitary Fermi gas</i>	David Clément (Palaiseau) <i>Single-atom-resolved probing of lattice gases in momentum space</i>
12h00-12h30	Fabien Alet (Toulouse) <i>Many-Body Localization: overview and some recent developments</i>	Nicolas Dupuis (Paris) <i>Kosterlitz-Thouless signatures in the low-temperature phase of layered three-dimensional superfluid systems</i>
12h30-13h00	Nicolas Regnault (Paris) <i>Many body localization and thermalization: (machine) learning from the entanglement spectrum</i>	Fred Jendrzejewski (Heidelberg) <i>Observation of the phononic Lamb shift</i>
13h00	Lunch break	Lunch break
	Disorder & co.	One-dimensional systems
14h30-15h00	Giuliano Orso (Paris) <i>2D Anderson transitions of ultracold atoms with synthetic spin-orbit interactions</i>	Anna Minguzzi (Grenoble) <i>Tan's contact for one-dimensional multi-component Fermi gases</i>
15h00-15h30	Nicolas Cherroret (Paris) <i>Novel perspectives from Anderson localization of matter waves</i>	Jean-Marie Stephan (Lyon) <i>Inhomogeneous quantum quenches in the XXZ spin chain via statistical mechanics</i>
15h30-16h00	Radu Chircireanu (Lille) <i>Symmetry and localization in a disordered quantum system</i>	Grégoire Misguich (Saclay) <i>Dynamics of the Heisenberg spin chain initialized from a domain-wall initial condition</i>
16h00-16h30	Coffee break	Coffee break
	Photons, cavities & co.	Gauge fields & co.
16h30-17h00	Patrizia Weiss (Nice) <i>Interplay of subradiance and radiation trapping in cold atom clouds</i>	Fabrice Gerbier (Paris) <i>Clock spectroscopy of ytterbium atoms in optical lattices</i>
17h00-17h30	Cristiano Ciuti (Paris) <i>Critical slowing down in driven-dissipative Bose-Hubbard lattices</i>	Leonardo Mazza (Paris) <i>Laughlin-like physics in bosonic and fermionic 1D gases with synthetic dimension</i>
17h30-18h00	Fred Hébert (Nice) <i>Collective behavior of light and matter</i>	Loïc Henriot (Palaiseau) <i>Dynamics and topology of a dissipative spin</i>
18h00-18h30	Guido Pupillo (Strasbourg) <i>Cavity-enhanced transport of charge</i>	Closing remarks
20h00	SOCIAL DINNER	