Bose-Einstein Condensation 2023

Wednesday, 13 September 2023

Poster Session III (21:00 - 23:00)

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[123] Melting of a vortex lattice in a fast rotating Bose gas	PERRIN, Hélène	
[195] Simulating high harmonic generation with ultracold atoms	ARGÜELLO-LUENGO, Javier	
[200] Many-body Physics with Fermions in an Optical Box	Prof. NAVON, Nir	
[201] Quantum gas microscopy of triangular-lattice Mott insulators	SCHAUSS, Peter	
[74] Emergenet fractonic constraints in tilted optical lattices	KNAP, Michael	
[110] Er-Li: A little explored quantum gas mixture with unique opportunities	GROSS, Christian	
[36] Realization of 1D Anyons with Arbitrary Statistical Phase	BAKKALI-HASSANI, Brice	
[89] One-axis twisting as a method of generating many-body Bell correlations	PŁODZIEŃ, Marcin	
[93] Spatially Dressed States Create a Narrow Barrier for Soliton Interferometry	GARDINER, Simon	
[167] Spectroscopy and Emergent Order in an Ultracold Mixture of 87Rb-40K	Prof. DAVIDSON, Nir	
[126] Mediated Interaction between Ions in Quantum Degenerate Gases	DING, Shanshan	
[160] Coarsening dynamics in far-from-equilibrium two-dimensional Bose gas: How far is far?	GALKA, Maciej	
[44] Supersolid Phases of Dipolar and Spin-Orbit Coupled Bosons in Optical Lattices	Prof. SA DE MELO, Carlos	
[163] Multichannel nature of elastic and inelastic three-body collisions	KOKKELMANS, Servaas	
[144] N-atom cavity QED: from cavity protection to quantum simulations with long-range interactions	Prof. REICHEL, Jakob	
[58] Cavity QED with an atom tweezer array	STAMPER-KURN, Dan	
[43] Vortex qubit in a superfluid	SIMULA, Tapio	
[62] Dynamics after a quantum quench in Bose-Hubbard systems: Correlation spreading and disorder-free localization	DANSHITA, Ippei	
[21] Rotons and their damping in elongated dipolar Bose-Einstein condensates	Dr BARANOV, Mikhail	
[63] Engineering long-range fermion-mediated interactions in cold-atom quantum simulators	ARGÜELLO-LUENGO, Javier	
[27] Dissipative time crystals in an atom-cavity system	KONGKHAMBUT, Phatthamon	
[150] Open and driven quantum gases	ECKARDT, André	
[129] Atom laser-based measurements of optical and magnetic potentials	MOSSMAN, Maren	
[116] Engineering non-local interactions and geometrical frustration in synthetic quantum matter	Dr BARBIERO, Luca	
[64] Experiments with cold molecular lanthanides	VALTOLINA, Giacomo	
[143] Evaporative cooling and tetramer association of MW-shielded ground-state polar molecules	HILKER, Timon	
[40] Making statistics work: a quantum engine in the BEC-BCS crossover	Dr CUESTAS, Eloisa	

[77] Interplay between S-matrix resonance poles in an ultracold atom collider	KJAERGAARD, Niels	
[72] Quasiparticle localization in a flat band superconductor	Dr PEOTTA, Sebastiano	
[121] The cold-atom elevator: From edge-state injection to the preparation of fractional Chern insulators	GOLDMAN, Nathan	
[75] Floquet-engineered pair and single-particle filters in the Fermi-Hubbard model	SHEIKHAN, Ameneh	
[148] Polaron interaction in superfluids	Prof. ENSS, Tilman	
[168] The shape of three-body interactions near narrow Feshbach resonances	KHAYKOVICH, Lev	
[105] Interactions in Rabi-coupled two-component Bose-Einstein condensates	BOURDEL, Thomas	
[13] Observation of Rydberg blockade due to the charge-dipole interaction between an atom and a polar molecule	Dr CORNISH, Simon	
[11] Fermi polarons in doped two-dimensional semiconductors	LEVINSEN, Jesper	
[101] Novel phase transitions in disordered quantum systems	SHLYAPNIKOV, Georgy	
[134] A 2D Bose gas to study quantum hydrodynamic instabilities	MARQUES CASTILHO, Patricia Christina	
[92] Shapiro steps in driven atomic Josephson junctions	SINGH, Vijay	
[37] Quantum simulation of the central spin model with a Rydberg atom and polar molecules in optical tweezers	TOMZA, Michal	
[98] Kinetic frustration in ultracold atomic systems: from hole-magnon bound states to kinetic magnetism	Dr MORERA NAVARRO, Ivan	
[132] Magnetically mediated hole pairing in fermionic ladders of ultracold atoms	HIRTHE, Sarah	
[94] Programmable Quantum Simulation of the Fermi-Hubbard Model	PREISS, Philipp	
[70] Vortex lattice nucleation in dipolar Bose-Einstein condensates	Prof. MARTIN, Andy	
[97] Dipolar supersolids: From magnetic atoms to polar molecules	LANGEN, Tim	
[130] Dynamics of Stripe Patterns in Supersolid Spin-Orbit-Coupled Bose Gases	GEIER, Kevin T.	
[159] Emergence of hydrodynamics in a mesoscopic fermi gas	LUNT, Philipp	
[190] Quantized vortices and sound velocities across the superfluid-supersolid phase transition in a dipolar Bose gas	ŠINDIK, Marija	
[165] Quantum Hall physics in a quantum Foucault pendulum	FLETCHER, Richard	