

Hybrid workshop

Connections between Cold Atoms and Nuclear Matter: from low to high energies

Villazzano, 6-10 June

Topics

In this workshop, theorists working in cold atoms and nuclear matter will be brought together to exchange ideas between the two fields. Given that ultracold atoms can be used as quantum simulators of situations that are relevant to nuclear matter, a few experimentalists working with ultracold bosons and fermions will present new results that require deeper theoretical understanding. Their presentations will stimulate cross pollination between theorists working in the two communities. Topics to be covered in the workshop include unitary gases, long-ranged dipolar interactions, optical lattices and lattice chromodynamics, artificial spin-orbit coupling, supersolidity and collective excitations.

Organizers

Carlos **Sa de Melo** (Georgia Institute of Technology, Atlanta/US)
Alexandros **Gezerlis** (University of Guelph, Guelph/CA)

Key speakers

Monica **Aidelsburger** (LMU Munich), Yvan **Castin** (ENL- Paris), Joe **Carlson** (Los Alamos), Gianluca **Colò** (Milan), Denis **Lacroix** (Orsay), Dean **Lee** (Michigan State), Piotr **Magierski** (Warsaw), Giovanni **Modugno** (Florence-Pisa), Henning **Moritz** (Hamburg), Sergej **Moroz** (Karlstad), Nir **Navon** (Yale), Amy **Nicholson** (North Carolina), Silke **Ospelkaus** (Hannover), Thomas **Papenbrock** (Tennessee), Guido **Pupillo** (Strasbourg), Alessio **Recatti** (Trento), Alessandro **Roggero** (Trento), Luis **Santos** (Hannover), Srimoyee **Sen** (Iowa State), Sandro **Stringari** (Trento), Andrea **Trombettoni** (University of Trieste), Michael **Urban** (Orsay), Senne **van Loon** (Gatech-Antwerp), Daisuke **Yamamoto** (Tokyo)

Director of the ECT*: Professor Gert Aarts

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