

The physics of strongly interacting matter: neutron stars, cold atomic gases and related systems

The workshop will bring together experts from nuclear physics, astrophysics, and cold atomic gases to develop an improved understanding of the physics of strongly interacting matter, with a particular focus on neutron stars. The main topics of the workshop will be microscopic calculations of the equation of state, insights from other systems such as cold atomic gases, observations of neutron stars and neutron star mergers, the physics of the neutron star crust, and experimental constraints on neutron-rich matter.

Organizers

Achim Schwenk (TU Darmstadt), Anna Watts (University of Amsterdam), Christopher Pethick (Niels Bohr Institute and Nordita), Francesca Ferlaino (Universität Innsbruck; IQOQI, ÖAW)

Keynote Speakers

Andreas Bauswein (OSU Darmstadt), Silas Beane (University of Washington), Nicolas Chamel (Brussels U), Maria Colonna (Catania), Maciej Galka (Heidelberg U), Sebastien Guillot (Toulouse), Zoran Hadzibabic (Cambridge, UK), Charles Horowitz (Indiana U), Elinor Kath (Heidelberg U), Michael Kramer (Bonn), Elena Poli (Innsbruck), Jocelyn Read (California State U), Sanjay Reddy (INT), Thomas Schaefer (NC State), Dam Son (Chicago), Sandro Stringari (U Trento), Ingo Tews (LANL), Wolfram Weise (TU Munich)

Director of ECT*: Professor Ubirajara Van Kolck