

Superfluidity and Pairing Phenomena: from Cold Atomic Gases to Neutron Stars

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-9:30 Registration				
9:30-10:15 Aurel Bulgac TDDFT with Pairing Correlations in Nuclear Reactions	9:30-10:15 Peter Schuck alpha particle condensation in nuclear system	9:30-10:15 G. Volovik , TBA	9:30-10:15 Päivi Törmä Flat band superfluidity and quantum metric	9:30-10:15. Xu-Guang Huang Novel Pion Superfluid at Finite Isospin Density
10:15-11:00 Ettore Vitali Exact numerical results on the pairing gap, spectral functions, and dynamical response in the two- dimensional Fermi gas	10:15-11:00 Michael Urban Polarized Fermi gases within T matrix approximation	10:15-11:00 Laura Tolos Transport phenomena in superfluid neutron stars	10:15-11:00 Omar Benhar Superfluid gap in neutron matter from the CBF effective interaction	10:15-11:00 Eckhard Krotschek Correlations in the low-density Fermi gas: Fermi-liquid state, dimerization, and BCS pairing
11:00-11:30 Coffee break	11:00-11:30 Coffee break	11:00-11:30 Coffee break	11:00-11:30 Coffee break	11:00-11:30 Coffee break
11:30-12:15 James Sauls Higgs spectrum of spin- triplet, p-wave condensates	11:30-12:15 Alex Gezerlis Pairing in 2D cold atomic gases and other systems	11:30-12:15 Gerd Röpke Pairing and quartetting in nuclear systems	11:30-12:15 Panagiota Papakonstantinou Three- nucleon forces and pairing in neutron stars	11:30-12:00 Closing and Farewell
12:15-13:00 Giovanni Martone Quantum Tricritical Points and Phase Transitions in Spin-Orbit- Coupled Bose-Einstein Condensates	12:15-13:00 Gabriel Wlasowski Vortex dynamics in strongly interacting fermionic superfluids from time- dependent density functional theory	12:15-13:00 Alessandro Pastore Superfluid properties of the inner crust of a neutron	12:15-13:00 Armen Sedrakian The phase diagram of imbalanced fermions and BCS-BEC crossover	
13:00-14:45 Lunch break	13:00-14:45 Lunch break	13:00-14:45 Lunch break	13:00-14:45 Lunch break	13:00-14:45 Lunch
14:45-15:00 Welcome address, Director Jochen Wambach				
15:00-15:45 Marcello Baldo Elementary excitations in neutron star matter in the region of proton pairing	15:00-15:45 Chris Pethick Pairing and band structure in atomic gases and neutron star crusts	15:00-15:45 Piotr Magierski Selected aspect of superfluid dynamics in nuclear systems	15:00-15:45 Arnau Rios Huget Short- and long- range correlations in nuclear pairing phenomena	
15:45-16:30 H.-J. Schulze Pairing gaps and neutron star cooling	15:45-16:30 Vasily Shaginyan New state of matter, quantum spin liquids and pairing	15:45-16:30 Grigory Astrakharchik Single- particle versus pair superfluidity in a bilayer system of dipolar bosons	15:45-16:30 Alessio Recati The repulsive branch of strongly interacting atomic Fermi gases	
16:30-17:00 Coffee Break	16:30-17:00 Coffee Break	16:30-17:00 Coffee Break	16:30-17:00 Coffee Break	
17:00-17:45 Nicolas Chamel Superfluidity in neutron-star crusts	17:00-17:45 Sebastiano Peotta Effective theory and emergent SU(2) symmetry in the flat bands of attractive Hubbard models	17:00-17:45 Tomohiro Ohishi Three-body model with pairing for quantum stable and meta-stable systems	7:00-17:45 J. W. Clark TBA	