Schedule for ECT* Workshop "Exploring Nuclear Physics With Ultracold Atoms"
June 18-22, 2018

MONDAY 9:30 AM SESSION
Horikoshi — Dilute pure neutron matter investigated by cold atom experiments
Carlson — Few to Many Fermions and Bosons at Unitarity

MONDAY 4 PM SESSION
Urban — Screening of pairing in dilute neutron matter
Gezerlis – From neutrons to atoms (in 2D) and back

TUESDAY 9:30 AM SESSION
Moritz — Homogeneous 2D Fermi gases
Lacroix — Density Functional approach to cold atoms and neutron matter

TUESDAY 4 PM SESSION
Jochim — Observation of a quantum anomaly in a 2D Fermi superfluid
Blume — Cold few-atom systems with large s-wave scattering length

WEDNESDAY 9:30 AM SESSION
Thomas — Modeling nuclear matter with ultracold atomic gases
Recati — Two component superfluid in ultra-cold gases: supercurrent stability, magnetic vortices and the Andreev-Bashkin effect
Yip — Non-analytic thermodynamics / spin-incoherent Tonk gas

WEDNESDAY 4 PM SESSION
Bakr — Quantum Gas Microscopy of Atomic Fermi-Hubbard Systems
Sa De Melo — Unconventional color superfluidity without quarks: Ultra-cold fermions in the presence of color-orbit and color-flip fields

THURSDAY 9:30 AM SESSION
Navon — Turbulence in a Quantum Gas
Bulgac — QMC and TDDFT in nuclear and cold atom systems
Defenu — Quantum scale anomaly and spatial coherence in a 2D Fermi superfluid

THURSDAY 4 PM SESSION
Schaefer — Transport properties of the unitary Fermi gas
Enss – Spin transport and quantum bounds for unitary fermions

FRIDAY 9:30 AM SESSION
Nicholson — From QCD to cold atoms: what can we learn from the lattice?
Jensen — Lattice quantum Monte Carlo studies of pairing correlations at unitarity