

Session Program

1-5 Sept 2024

FINESS2024: Finite temperature Non-Equilibrium Superfluid Systems

Posters II

Novotel Surfers Paradise, Gold Coast, Queensland, Australia
Cnr Of Surfers Paradise Blvd, Hanlan St, Surfers Paradise QLD 4217

Wednesday 4 September

17:00

Posters II

Session | **Location:** Wavebreak & Miami room

17:00–19:00

Non-perturbative corrections to the weakly interacting two component Fermi gas

Speaker

Axel Pelster

17:00–19:00

Quantum thermal machine regimes in the transverse-field Ising model

Speaker

Vishnu Muraleedharan Sajitha

17:00–19:00

Unravelling Interaction and Temperature Contributions in Unpolarized Trapped Fermionic Atoms in the BCS Regime

Speaker

Axel Pelster

17:00–19:00

Phononic crystal trapping geometries for improved rotational sensing with ultracold atoms

Speaker

Lachlan Miller

17:00–19:00

Tensor network methods for the Gross-Pitaevskii equation

Speaker

Ryan Connor

17:00–19:00

Universal description of massive vortices in superfluids

Speaker

Prof. Hiromitsu Takeuchi

17:00–19:00

Non-Hermitian dynamics of a photonic wave packet in a microcavity filled with a liquid crystal

Speaker

Mateusz Król

17:00–19:00

Heteronuclear mixtures: From Efimov effect to heavy Fermi polarons

Speaker

Michael Rautenberg

17:00–19:00

Fractal spectrum and dimension extension of twisted bilayer optical lattices in ultracold atoms

Speaker

Zheyu Shi

17:00–19:00

Exploring the dynamics of polar core vortices in homogeneous spin-1 Bose-Einstein condensates**Speaker**

Matthew Edmonds

17:00–19:00

Work, heat and entropy in isolated quantum systems**Speaker**

Lewis Williamson

17:00–19:00

Equatorial waves in rotating bubble-trapped superfluids**Speaker**

Dmitry Efimkin

17:00–19:00

Vortex matter simulation of the one component plasma**Speaker**

Tyler Neely

17:00–19:00

On Demand Formation of Topological Defects in Ferromagnetic Spinor Bose Einstein Condensates**Speaker**

Zac Kerr

17:00–19:00

Nonequilibrium Transport in a Superfluid Josephson Junction Chain: Is There Negative Differential Conductivity?**Speaker**

Samuel Begg

17:00–19:00

Signatures of many-body localization of quasiparticles in a flat band superconductor**Speaker**

Koushik Swaminathan

19:00