Session Program

1–5 Sept 2024

FINESS2024: FInite temperature Non-Equilibrium Superfluid Systems

Posters I

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

Monday 2 September

17:00

Posters I

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

17:00–19:00 **Emergent Universal Drag Law in a Model of Superflow**

Speaker
Maarten Christenhusz

17:00–19:00 **Vortex spin in a Bose-Einstein condensate**

Speaker
Tapio Simula

17:00–19:00 **Quantized Vortices in Superfluid Helium Thin Films**

Speaker
Nicole Luu

17:00–19:00 **Vortex Dimples in Superfluid Helium Thin-Films**

Speakers
Mr Daniel Harvey, Mr Luke Kelly

17:00–19:00
Critical Velocity and Vortex Nucleation for Superfluid Flow Past a Finite Obstacle

Speaker
Charlotte Quirk

17:00–19:00 **A nonequilibrium quantum Otto cycle in a one-dimensional Bose gas**

Speaker
Raymon Watson

17:00–19:00 **Dynamics and Thermodynamics of Rabi-driven Fermi gases**

Speaker
Brendan Mulkerin

17:00–19:00 **Bogoliubov theory of 1D anyons in a lattice**

Speaker
Axel Pelster

17:00–19:00 **Active matter in two dimensions**

Speaker
Leticia Cugliandolo

17:00–19:00 **Realising topological phases in the spin-1/2 quantum kicked rotor**

Speaker
Andrew Groszek

17:00–19:00 **Shear-Induced Decaying Turbulence in Bose-Einstein Condensates**

Speaker
Simeon Simjanovski

17:00–19:00 **Polaron approach to quantum mixtures**

Speaker
Jesper Levinsen

17:00–19:00
A charged impurity in an ultracold gas: observations of cold chemistry

Speaker
Eleanor Trimby

17:00–19:00
Microscopic many-body theory of two-dimensional coherent spectroscopy of exciton-polarons in one-dimensional materials

Speaker
Jia Wang

17:00–19:00
Collective excitations of a Bose-condensed gas: Fate of second sound in the crossover regime between hydrodynamic and collisionless regimes

Speaker
Hoshu Hiyane

17:00–19:00 **Narrow-linewidth exciton-polariton laser**

Speaker
Ms Bianca Rae Fabricante

17:00–19:00 **Towards Fermi polarons with heavy impurities**

Speaker
Tobias Krom

19:00