

Session Program

30 November 2025 to 5 December 2025



AIP summer meeting 2025

Focus Session: Ultra-cold atoms and quantum technology

Building 40, Hope Theatre
University of Wollongong Northfields Avenue Wollongong NSW 2522

Monday 1 December

10:45

Focus Session: Ultra-cold atoms and quantum technology: Focus Session: Ultra-cold atoms and quantum technology

Session |

Location: Building 40, Hope Theatre, University of Wollongong Northfields Avenue Wollongong NSW 2522 |

Convener: Xia-Ji Liu

11:00–11:30

Some Exact Solutions in Polaron Physics and Polaron Interactions: A Few-Body Perspective

Speaker

Jia Wang

11:30–12:00

Quantum Many-Body Correlation from Controlled Dynamics

Speaker

Prof. Hui Zhai

12:00–12:30

Compact, Resilient, and Quantum: The Future of Atom-Based Inertial Sensors

Speaker

Dr Simon Haine

12:30

13:30

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13:30–14:00

Quasiparticle interactions in quantum mixtures

Speaker

Meera Parish

14:00–14:30

Experiments on mass and momentum-entangled pairs of ultracold He* atoms

Speaker

Sean Hodgman

14:30–15:00

Realising solitonic edge states of vortex lattices in planar Bose-Einstein condensates

Speaker

Matthew Davis

15:00