Session Program

7–11 Dec 2026



26th Australian Institute of Physics Congress and the Australian and New Zealand Conference on Optics and Photonics

AIP ATMOP: Ultracold Quantum Gases

The University of Sydney , Belinda Hutchinson Building
Abercrombie St & Codrington St NSW 2008

Tuesday 8 December

16:30

AIP ATMOP: Ultracold Quantum Gases

Session |
Location: The University of Sydney , Belinda Hutchinson Building, Abercrombie St & Codrington St NSW 2008 |
Convener: Odile Smits

16:30–16:45 **Atom--atom correlations in Bose--Fermi gas collisions**

Speaker
Prof. Karen Kheruntsyan

16:45–17:00 **Quantum droplets in a resonant Bose-Fermi mixture**

Speaker
Sam Foster

17:00–17:15 **DFT made warm, excited, and ready for quantum computers**

Speaker
Tim Gould

17:15–17:30 **Faraday Waves in Viscous Superfluids**

Speaker
Tapio Simula

17:30–17:45
Experimental Creation of Novel Solitons Structures in Multicomponent Bose-Einstein Condensates

Speaker
Zachary Kerr

17:45–18:00
CHSH Bell Inequality Violation with Momentum-Entangled ultracold helium atoms

Speaker
Sean Hodgman

18:00