Session Program

7–11 Dec 2026



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

AIP QST: Optomechanics and mechanical quantum interfaces

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

Tuesday 8 December

11:00

AIP QST: Optomechanics and mechanical quantum interfaces

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

11:00–11:30 **Solitary waves in a phononic integrated circuit**

Speaker
Dr Christopher Baker

11:30–11:45 **Adaptive Shuttling to Engineer Quantum Levitodynamics**

Speaker
Samuel McNeil

11:45–12:00 **Megahertz Optical Levitation of a Nanomechanical Oscillator**

Speaker
Angus King

12:00–12:15 **Coupling nuclear spins to mechanical motion**

Speaker
Laura O'Neill

12:15–12:30
Toward mechanically-detected magnetic resonance at the single spin limit

Speaker
Ben Russell

12:30