Session Program

7–11 Dec 2026



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

ANZCOP: Waveguides, Fibres & Mode Control

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

Tuesday 8 December

16:30

ANZCOP: Waveguides, Fibres & Mode Control

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

16:30–17:00

Adaptive cascaded wavefront shaping for high-dimensional mode conversion

Speaker
José Carlos Amaral Rocha

17:00–17:15

Telecom-Wavelength III-V Metasurface Laser via Brillouin-Zone-Folded Guided-Mode Resonance

Speaker
Mr Joshua Jordaan

17:15–17:30

Inverse Design of Spontaneous Parametric Down Conversion Metasurfaces Using Adjoint Optimisation and Machine Learning Surrogates

Speaker
Marcus Cai

17:30–17:45

Tailoring High-Refractive-Index ZrO_2 Nanocomposites for Scalable Manufacturing of Ultraviolet Metasurfaces

Speaker
Nara Jeon

17:45–18:00

Metasurface generation of quantum skyrmion topologies via high-dimensional entanglement

Speaker
Ramona Bedford

18:00