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: Quantum materials & light-matter interfaces

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

Thursday 10 December

14:00

AIP QST: Quantum materials & light-matter interfaces

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

14:00–14:15 **An Eigenstate Solution for Crystal Field Modelling of Ytterbium Ions**

Speaker
Mr Lasse Sweetland

14:15–14:30 **Engineered Crystal Systems for Erbium Quantum Hardware**

Speaker
Dr Timothy Newman

14:30–14:45

Generation of quantum-relevant Er sites in Silicon photonic waveguides

Speaker
Mrigendra Yadav

14:45–15:00

Evolution of quantum defects through pressure-induced phase changes

Speaker
David Broadway

15:00–15:15

Near-infrared optically addressable spins and single photon emission in hexagonal boron nitride

Speaker
Fatin Al Sadab

15:15–15:30 **A Q-Band Room-Temperature Solid-State Maser**

Speaker
Tom Day

15:30