Session Program

6–11 Dec 2026



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

AIP QST: Quantum characterization & learning from measurements

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

Thursday 10 December

14:00

AIP QST: Quantum characterization & learning from measurements

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

14:00–14:30 **From quantum channel discrimination to molecular spectroscopy**

Speaker
Zixin Huang

14:30–14:45 **Connecting Quantum Tomography and Quantum Retrodiction**

Speaker
Dr Sebastian Murk

14:45–15:00
Experimental Demonstration of Quantum State Smoothing in an Optical Parametric Oscillator

Speaker
Dr Shota Yokoyama

15:00–15:15
Beyond the Symmetric Beam-Splitter: Hong-Ou-Mandel Entropy from Frame Reconstruction Tomography

Speaker
Matthew Armanasco

15:15–15:30
Machine learning of quantum data using optimal similarity measurements

Speaker
Raj Patel

15:30