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: Rare-earth quantum memories & interfaces

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

Monday 7 December

14:00

AIP QST: Rare-earth quantum memories & interfaces

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

14:00–14:30

Accurate models of the interaction of polarised light with rare earth quantum memories

Speaker
Rose Ahlefeldt

14:30–14:45

High resolution study of the piezospectroscopic limits of future Erbium quantum hard-drives

Speaker
Benjamin Field

14:45–15:00

Erbium 3+ Ion Ensembles in Silicon for Quantum Memories

Speaker
Justin Brown

15:00–15:15

Demonstration of a cavity-enhanced fibre-coupled telecom quantum memory

Speaker
James Stuart

15:15–15:30

Generation of entangled optical-microwave modes with an inbuilt quantum memory

Speaker
Gargi Tyagi

15:30