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 dynamics & hybrid simulation

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

Friday 11 December

09:00

AIP QST: Quantum dynamics & hybrid simulation

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

09:00–09:30

On the connection between quantum chaos and randomness in closed- and open-system quantum dynamics

Speaker
Nathan Langford

09:30–09:45

Non-Abelian dynamics on a cube: Improving quantum compilation through qudit-based simulations

Speaker
Jacky Jiang

09:45–10:00

Simulating dynamics in structured environments on hybrid CV-DV quantum simulators

Speaker
Liam Flew

10:00–10:15

Programable quantum simulation of continuous-variable anharmonic and nonlinear dynamics

Speaker
Kai Schwennicke

10:15–10:30

Optimising Qubit-Cavity Gates for Digital Quantum Simulations

Speaker
Joshua Tran

10:30