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: Non-Markovian noise, control & error mitigation

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

Thursday 10 December

14:00

AIP QST: Non-Markovian noise, control & error mitigation

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

14:00–14:15 **Developments on non-Markovian noise in superconducting qubits**

Speaker
Christina Giarmatzi

14:15–14:30
Learning and forecasting non-Markovian noise on superconducting processors

Speaker
Jasleen Kaur

14:30–14:45
Non-Markovian dynamics of a TLS due to indirect interactions with other TLSs

Speaker
Dr Muhammad Faryad

14:45–15:00 **Optimising gate performance against non-Markovian noise**

Speaker
Soumik Mahanti

15:00–15:15 **Multi-level random noise mitigation using spectator qubits**

Speaker
Yanan Liu

15:15–15:30
Quantum Error Mitigation for Mid-circuit measurements and Feedforward

Speaker
Prof. Jayne Thompson

15:30