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: Photonic quantum computing & bosonic codes

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

Thursday 10 December

11:00

AIP QST: Photonic quantum computing & bosonic codes

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

11:00–11:30 **Extensible universal photonic quantum computing with nonlinearity**

Speaker
Dr Raj Patel

11:30–11:45

Modelling complex quantum photonic circuits: a top-down introduction

Speaker
Tim Weiss

11:45–12:00

A unified optical platform for non-Gaussian and fault-tolerant Gottesman-Kitaev-Preskill states

Speaker
Ozlem Erkilic

12:00–12:15

Tailored decoding of Gottesman–Kitaev–Preskill error correction under realistic noise

Speaker
Tom Harris

12:15–12:30 **Quantifying Pauli Errors in Single-Photon Resource-State Generation**

Speaker
Yuktee Gupta

12:30