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 algorithms, circuit design & complexity

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

Tuesday 8 December

16:30

AIP QST: Quantum algorithms, circuit design & complexity

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

16:30–16:45

Constant Factor Analysis of Optimal Quantum Linear Solvers in Practice

Speaker
Pedro Contino da Silva Costa

16:45–17:00

Norm estimation for quantum linear systems solvers

Speaker
Kaur Kristjuhan

17:00–17:15

Quantum Algorithm for solving differential equations using SLAC derivatives.

Speaker
Rakshit Gharat

17:15–17:30

Tensor-Network-Inspired Variational Quantum Circuits for Quantum State Preparation

Speaker
Bi Qi Chong

17:30–17:45

Every layer counts: Depth hierarchy for shallow quantum circuits

Speaker
Xingjian Zhang

18:00