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 simmulation of chemistry & materials

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

Tuesday 8 December

11:00

AIP QST: Quantum simmulation of chemistry & materials

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

11:00–11:30 **End-to-End Simulation of Chemical Dynamics on a Quantum Computer**

Speaker
Arkin Tikku

11:30–11:45 **Processed Product Formulae for More Accurate Quantum Simulation**

Speaker
Abhishek Rawat

11:45–12:00
Spectral amplification for simulation of electronic structure of materials in first quantisation

Speaker
Dominic Berry

12:00–12:15 **Sum of Squares Representations for the Hubbard Model**

Speaker
Sharan Krishnan

12:15–12:30
Improved sample-efficiency in Sample-based Quantum Diagonalisation via a Lanczos-cluster expansion framework

Speaker
Michael Jones

12:30