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: Diamond spin sensing & magnetometry

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

Tuesday 8 December

14:30

AIP QST: Diamond spin sensing & magnetometry

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

14:30–14:45

High bandwidth magnetic sensing with a quantum heterodyne diamond sensor

Speaker
Hamish Taylor

14:45–15:00

Quantum heterodyne techniques to enhance magnetometry capability using nitrogen-vacancy centres in diamond.

Speaker
Michael Barson

15:00–15:15

Towards Signal and Noise Engineering in Diamond Quantum Spin Readout

Speaker
Harini Hapuarachchi

15:15–15:30

Laser-Threshold Magnetometry with Spin-1/2 and Spin-1 Quantum Sensors

Speaker
Qiang Sun

15:30