**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 sensing, estimation & entanglement*

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

# Wednesday 9 December

11:00

## AIP QST: Quantum sensing, estimation & entanglement

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

11:00–11:15 **Multiparameter Estimation in Asymmetric Atom Interferometers**

**Speaker**
Meghan Gossayn

11:15–11:30 **Impact of quantum noise on Ramsey spectroscopy**

**Speaker**
Diego Bernal-García

11:30–11:45
**Certifying high-dimensional entanglement via particle exchange symmetry**

**Speaker**
Jayden Webster

11:45–12:00
**Spin entanglement of two thermal atoms in an optical tweezer and its use for magnetic field sensing**

**Speaker**
Mikkel F. Andersen

12:00–12:20 **Trade-offs and entanglement in quantum multiparameter estimation**

**Speaker**
Simon Yung

12:30