Session Program

7–11 Dec 2026



26th Australian Institute of Physics Congress and the Australian and New Zealand Conference on Optics and Photonics

AIP ATMOP: Atomic Structure and Fundamental Physics

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

Thursday 10 December

14:00

AIP ATMOP: Atomic Structure and Fundamental Physics

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

14:00–14:15

Improved structure calculations in open-shell atoms and applications to EUV lithography

Speaker
Julian Berengut

14:15–14:30

Electron-impact excitation of the ^{7}LiH $X\,^1\Sigma^+$ vibrational spectrum

Speaker
Haadi Umer

14:30–14:45

Enhanced Sensitivity to Low-Mass Z′ Bosons in Light Atoms via Parity Nonconservation

Speaker
Garry Vong

14:45–15:00

Dual Magnetic and Electric Dipole Symmetry: Pseudo-Angular Momentum in Parity Space and the Electric Land\'e g-Factor

Speaker
Michael Tobar

15:00–15:15

Constraining new electron-electron forces with atomic structure calculations

Speaker
Cameron West

15:15–15:30

Nonperturbative treatment of structural radiation in atomic structure

Speaker
Thakur Giriraj Hiranandani

15:30