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: Collisions, Molecules, Chemical Physics

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

Monday 7 December

15:45

AIP ATMOP: Collisions, Molecules, Chemical Physics

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

15:45–16:00

Ab Initio Reaction Mechanisms and Low-Temperature Kinetics for the Formation of HCSCN and HCSCCH in Interstellar Sulphur Chemistry

Speaker
Bouthéïna KERKENI

16:00–16:15

Vibrationally resolved cross sections for proton collisions with hydrogen molecules

Speaker
Dr Corey Plowman

16:15–16:30

A general approach to calculating ion collisions with light atoms, application to proton-oxygen scattering

Speaker
Kyna Schrick

16:30–16:45

A mechanistic analysis of magnetic field effects in ATP synthesis

Speaker
Anjay Manian

16:45–17:00

A Tunable Blue-Detuned Optical Ring Trap for Fast Compression of Ultracold Metastable Helium-4

Speaker
Shijie Li

17:00–17:15

Surface-Selective Adsorption ofThiophene–Pyridine–Oxadiazole Corrosion Inhibitors on Fe Surfaces: A DFT Investigation

Speaker
Prof. Feng Wang

17:15