Session Program

7–11 Dec 2026



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

AIP NUPP: Nuclear Physics 1

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

Monday 7 December

11:30

AIP NUPP: Nuclear Physics 1

Session |
Location: The University of Sydney , Belinda Hutchinson Building, Abercrombie St & Codrington St NSW 2008 |
Convener: Dr Robert Renz Marcelo Gregorio

11:30–11:45

Overturning the Understanding of Superheavy Element Synthesis Reaction Dynamics Through Direct Measurements of Sequential Fission

Speaker
Jacob Buete

11:45–12:00

New Techniques to Identify Compound Nucleus Formation in Superheavy Element Synthesis Reactions

Speaker
Sophie Hayles

12:00–12:15

Colliding heavy nuclei have multiple identities on the path to fusion: moving towards a more complete picture of fusion

Speaker
Kaitlin Cook

12:15–12:30

Searching for triaxial deformation in exotic nuclei towards the neutron dripline

Speaker
Luke Johnstone

12:30–12:45

Search for two-phonon γ-vibrational states in 162Dy through Coulomb excitation

Speaker
Tom Perissinotto

12:45–13:00

Fleeting finesse: precise nuclear g-factor measurements on picosecond-lifetime states

Speaker
Brendan McCormick

13:00