

Session Program

18-23 Jan 2026



2026 NUPP summer school

Poster session

University of New South Wales

Monday 19 January

18:00

Poster session

Poster Session | **Location:** Old Main Building, G59

Probing the Pion using Lattice QCD

Speaker

Ian Van Schalkwyk

Modelling Energy Dissipation in a Time-Dependent Coupled Channels Model for Fusion

Speaker

Maggie Webber

Non-Perturbative Spinor Tunnelling in Interacting Quantum Fields

Speaker

Max Fleming

Searching for a new fission mode in ^{220}Ra

Speaker

Misty Lakelin

Searching for triaxial deformation in highly exotic nuclei towards the neutron drip line

Speaker

Luke Johnstone

Shell Model Investigations Around $N = 28$

Speaker

Aditya Babu

Charm Baryon Mixing and $SU(3)$ Flavour Symmetry Breaking from Lattice QCD

Speaker

Lula Abdirashid Ali

Probing nuclear structure via hyperfine splitting in Yb-173

Speaker

Jayden Hasted

The Cancellation of IR Divergences at Zero and Finite Temperature

Speaker

Marko Beocanin

QED Radiation in Hadron Decays

Speaker

Giacomo Morgante

Direct Detection of Dark Photons

Speaker
Narise Williams

Effectively dark matter

Speaker
Laura Fang

How Long Do Neutrons Live?

Speaker
Joshua Perks

Pepperpot Profiling: Probing Beam Properties with Pepperpot Devices

Speaker
Ryan Stewart

UAV borne organic scintillation detectors for radiation surveys

Speaker
Aithan Roufos

Neutrino masses and their temperament

Speaker
James Vandeleur

ORGAN-Low : Probing Sub- μeV Axion Dark Matter with Optimised Haloscope Design

Speaker
Raj Aryan Singh

ResNet Makes Event Reconstruction at Hyper-Kamiokande Faster and More Accurate

Speaker
Andrew Atta

Spin tagging of b-hadrons

Speaker
Alexander Jelavic

Toponium? Yay or Nay...

Speaker
Amelia Lovison

A new idea for relating the asymmetric dark matter mass scale to the proton mass

Speaker
Rafael Perez

Axion Detection Using Atomic Clocks

Speaker
Isabella Pham

Study of proton elastic scattering on carbon-12 using MCAS

Speaker
Ms Deeparna Bhattacharyya

The combinatorial method of Bc production cross section measurement**Speaker**

Gleb Chizhik

The cross section of Bc+ production relative to B+ production mediated by double parton scattering (DPS) and single parton scattering (SPS)**Speaker**

Wanxia Li

Dark Matter Induced Nucleon Decay Through the Neutron Portal**Speaker**

Michael Verde

Renormalization Group Running of Neutrino Masses in the Scotogenic Model**Speaker**

Weihang Zhang

Atomic parity violation and neglected inseparable correlation corrections to polarisabilities.**Speaker**

Jack Easton

All-orders inclusion of relativistic effects in atomic structure theory**Speaker**

Andoni Skoufris

Constraining the nuclear magnetisation distribution with muonic atoms**Speaker**

Thakur Giriraj Hiranandani

Coulomb Excitation Studies of Dysprosium-162**Speaker**

Thomas Perissinotto

Effect of the Weak Quadrupole Moment in Atoms and Molecules**Speaker**

Shannon Ray

Fission of Pre-Actinide Nuclei**Speaker**

Tony Tran

Investigation of excitation energy dependence of fission modes in actinides through transfer-induced fission**Speaker**

Hyeonseop Lee

Machine Learning for Radiation Simulation in Time Sensitive Applications**Speaker**

James Stuchbery