#### **Session Program**

7-9 Apr 2025

# IOP Joint APP and HEPP Annual Conference 2025

# **Neutrino Physics**

Cavendish Laboratory, University of Cambridge J J Thomson Avenue Cambridge CB3 0HE UK

### Tuesday 8 April

3:30	Neutrino Physics: 1 Session   Location: Lecture Theatre (A2.001)		
	13:30-13:45 Measuring Atmospheric Neutrino Mixing Without Unitarity		
	Speaker Rory Ramsden		
	13:45-14:00 Using Stopping Cosmic Muons for Calibrations at DUNE		
	Speaker Alexandra Moor		
	14:00-14:15 Central Value Spread Dial and Exploring the Shallow Inelastic Region		
	Speaker Callum Greg Cox		
	14:15-14:30 The Pacific Ocean neutrino experiment: new developments and physics case		
	Speaker Beatrice Crudele		
	14:30-14:45 Impact of flux systematics on ND fits		
	Speaker Koustubh APTE		
	14:45-15:00 Neutron Backgrounds in the SuperNEMO Experiment		
5:00	Speaker Sam Pratt		

## Wednesday 9 April

	Neutrino Physics: 2 Session   Location: Lecture Theatre (A2.001)
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	11:00-11:15
	Simulated Data Studies for the T2K Experiment Neutrino Oscillation Analysis
	Speaker
	Adam Speers
	11:15-11:30
	Constraining cross section uncertainties for a DUNE Long-baseline analysis
	Speaker
	Abigail Katharine Peake
	11:30-11:45
	Investigating Neutrino-Nucleus Interactions: Inclusive Cross-Sections Across Various Materials at MINERvA
	Speaker
	Akeem Hart
	11:45-12:00 Performance Evaluation of the Muon Window for DUNE Near Detector
	Speaker
	Callum Reynolds
	12:00-12:15
	Far-Detector Neutral Current Pi_0 Events for T2K's Oscillation Analysis
	Speaker
	Marvin Pfaff
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	12:15-12:30
	Constraining an Oscillation Analysis using Detector Systematics for the DUNE Liquid Argon Near Detector
	Speaker