

## **Session Program**

**8-11 Apr 2024**

# **IOP Joint APP, HEPP and NP Annual Conference 2024**

## ***Exhibitors and Poster Reception - II***

The Spine, Liverpool

## Tuesday 9 April

18:00

### Exhibitors and Poster Reception - II

**Session** | **Location:** The Spine, Level 12, Rooms 8 & 9 and the Atrium

18:00-20:00

#### Studying displacement damage in silicon detectors with the University of Birmingham MC40 Cyclotron

**Speaker**

Eric Liu

18:00-20:00

#### The MUonE experiment: a novel way to measure the hadronic contribution to the muon $g-2$

**Speaker**

Giorgia Cacciola

18:00-20:00

#### Progress towards Strontium Atom Interferometry at RAL Space

**Speaker**

Kamran Hussain

18:00-20:00

#### Decay Spectroscopy of $^{152}\text{Tb}$ as a Theragnostic Radionuclide

**Speaker**

Edward O'Sullivan

18:00-20:00

#### Unfolding Jet Observables with Machine Learning

**Speaker**

Nicodemos Andreou

18:00-20:00

#### "Search for $\mu^+ \rightarrow e^+e^+e^-$ at the Mu3e experiment and the Commissioning of the Pixel Tracker."

**Speaker**

Charles Kinsman

18:00-20:00

#### Kaon Cross Section Measurement with NuMI Beam at MicroBooNE

**Speaker**

Natsumi Taniuchi

18:00-20:00

#### Construction, Installation, and Commissioning of the SFGD Detector

**Speaker**

Mr Jake McKean

18:00-20:00

#### Wavelength Shifting Plates to Improve the Photon Detection Efficiency for the Southern Wide-Field Gamma-Ray Observatory

**Speaker**

Jazmin Stewart

18:00-20:00

### Improving the Performance and Reliability of High Purity Germanium (HPGe) Detectors through the monitoring of trace signals

#### Speaker

Thomas Wonderley

18:00-20:00

### The 2x2 DUNE Near Detector Demonstrator

#### Speaker

Akeem Hart

18:00-20:00

### The QUantum Enhanced Space-Time experiment poster

#### Speaker

Abhinav Patra

18:00-20:00

### Novel Techniques for $\alpha/\beta$ Pulse Shape Discrimination Using Silicon Strip Detectors

#### Speaker

Olivia Tindle

18:00-20:00

### Calibrating the Short-Baseline Near Detector with Cosmic-Ray Muons

#### Speaker

Anna Beever

18:00-20:00

### Designing Calorimeters for the Luminosity Monitoring System at the Electron-Ion Collider

#### Speaker

Alex Smith

18:00-20:00

### Commissioning of the MIGDAL detector with fast neutrons at ISIS/NILE

#### Speaker

Lex Millins

18:00-20:00

### Measurement of the electric dipole moment of the muon at the Fermilab g-2 experiment.

#### Speaker

Katherine Ferraby

18:00-20:00

### ATLAS Run 3 Search for New Physics in the Dielectron Channel

#### Speaker

Tom Elliot

18:00-20:00

### Measuring the lifetimes of low-lying $^{146}\text{Ba}$ energy levels using fast-timing techniques

#### Speaker

Faye Rowntree

18:00-20:00

### Exploring nuclear shapes and sizes of Thulium using laser spectroscopy (On behalf of the COLLAPS collaboration)

**Speaker**

Jack Hughes

18:00–20:00

**Cocktail Beam Coulomb-Excitation of  $^{50}\text{Cr}$  and  $^{50}\text{Ti}$** **Speaker**

Christopher Cousins

18:00–20:00

**A microscopic study of  $^{12}\text{C}+^{12}\text{C}$  fusion interactions****Speaker**

Khlood Alharthi

18:00–20:00

 **$^{12}\text{C}(\alpha, g)$ : Accurate Measurements of  $\phi_{12}$  Over the 1- Resonance****Speaker**

Kristian Haverson

18:00–20:00

**The effect of kinematic-specific calibrations on the timing resolution of the the BigBite Timing Hodoscope for the GMn experiment at Jefferson Lab.****Speaker**

Andrew Cheyne

18:00–20:00

**Gaussian Processes: Machine Learning for Observable Interpolation and Data Analysis****Speaker**

Ryan Ferguson

18:00–20:00

**Exploring Tau Identification in  $t\bar{t}$  dilepton final state with ATLAS 2022 Data****Speaker**

Sudev Pradhan

20:00