

## **Session Program**

**8-10 Apr 2026**



# **IOP Joint APP and HEPP Annual Conference 2026**

## ***Parallel - dark matter***

John McIntyre Conference Centre  
Pollock Halls, 18 Holyrood Park Rd, Edinburgh EH16 5AY

# Wednesday 8 April

15:45

## Parallel - dark matter: Wednesday Salisbury

Session | Location: Salisbury | Convener: Alberto Uson

15:45-16:00

### Projected Sensitivity of the XLZD Rare Event Observatory to New Physics via Low Energy Electron Recoils

**Speaker**

Huan Zhang

16:00-16:15

### Probing Light Dark Matter with Levitated Quantum Sensors

**Speaker**

Andrzej Gawdzik

16:15-16:30

### Modelling the accidental coincidence background in LUX-ZEPLIN for a light dark matter search

**Speaker**

Isabelle Darlington

16:30-16:45

### Spin-dependent dark matter sensitivity of DarkSide-20k

**Speaker**

Dr Ash Ritchie-Yates

16:45-17:00

### Searching for light dark matter with DarkSPHERE

**Speaker**

Dr Lachlan Milligan

17:00-17:15

### Prototype Validation Studies for the DarkSide-20k TPC

**Speaker**

Angus Thompson

17:45

# Friday 10 April

11:00

## Parallel - dark matter: Friday Prestonfield

Session | Location: Prestonfield | Convener: Sam Woodford

11:00-11:15

### First Measurements of the Effectiveness of Radon Removal in Liquid Xenon via Charcoal Chromatography

**Speaker**

Simran Dave

11:15-11:30

### Using Computer Vision to Reject Instrumental Background in LUX-ZEPLIN and Multi-Vertex Inelastic Dark Matter Signal Searches

**Speaker**

Catherine Lawes

11:30-11:45

### Probing low mass dark matter with superfluid helium

**Speaker**

Lizzie Bloomfield

11:45-12:00

### Construction Progress of the DarkSide-20k Dark Matter Search Experiment

**Speaker**

Daria Santone

12:00-12:15

### Production of 26 m<sup>2</sup> of SiPM Detectors for DarkSide-20k

**Speaker**

Dr Paolo Franchini

12:30