

**Session Program**

**5 May 2022**



**DMUK meeting at Birmingham**

***Session 1***

# Thursday 5 May

10:00

## Session 1: Session 1

**Session** | **Location:** | **Convener:** Ioannis Katsioulas

10:00–10:10 **Introduction**

**Speaker**

Christopher McCabe

10:10–10:30

**Status and Plans for Dark Matter work at Boulby underground Laboratory.**

**Speaker**

Sean Paling

10:30–10:50

**Neutron spectroscopy with Spherical Proportional Counters in Boulby**

**Speakers**

Ioannis Manthos, Ioannis Manthos, Ioannis Manthos

10:50–11:10

**Muon-induced background in a next-generation dark matter experiment based on liquid xenon**

**Speaker**

Vitaly Kudryavtsev

11:10–11:30

**When the Evaporation of Primordial Black Holes Messes Up with Dark Matter Production**

**Speaker**

Lucien Heurtier

11:30–11:45

**Design of a compact SiPM array for the Xenia detector**

**Speaker**

Andrew Stevens

11:45–12:00

**Intergalactic Dark Matter**

**Speaker**

Paul Frampton

12:00

13:00

## Session 1: Session 2

**Session** | **Location:** | **Convener:** Christopher McCabe

13:00–13:20

**FlameNEST: Explicit Profile Likelihoods with the Noble Element Simulation Technique**

**Speaker**

Robert James

13:20–13:35

**SAMBA: A cross-platform DAQ software for rare-event searches**

**Speaker**

Mark William Slater

13:35–13:50

**Searching for dilaton fields in the Ly $\alpha$  forest****Speaker**

Louis Hamaide

13:50–14:10

**DM searches in colliders****Speaker**

James Frost

14:10–14:30

**Status of the MIGDAL experiment****Speaker**

Tom Neep

14:30–14:50

**Progress report on the QSHS hidden sector dark matter project****Speaker**

Ian Bailey

14:50

15:30

**Session 1: Session 3****Session** | **Location:** | **Convener:** Konstantinos Nikolopoulos

15:30–15:50

**Status of the DarkSide-20k experiment****Speaker**

Daria Santone

15:50–16:10

**Status of the NEWS-G experiment****Speaker**

Patrick Ryan Knights

16:10–16:30

**Status of the LZ experiment****Speaker**

Sally Shaw

16:30–16:45

**Quantum-enhanced interferometry for axion searches****Speaker**

Denis Martynov

16:45–17:00

**QSNET project: A network of clocks for measuring the stability of fundamental constants****Speaker**

Leonid Prokhorov

17:00