

Session Program

12-15 Apr 2021

IoP 2021 - Joint APP/HEPP/NP Conference

Parallel Stream 9

Edinburgh, Remote

Monday 12 April

13:30

Parallel Stream 9: Astroparticle Physics 1

Session | **Location:** Edinburgh, Remote | **Convener:** Dr Teppei Katori

13:30-13:45 **Supernova Model Discrimination with Hyper-Kamiokande**

Speaker

Jost Migenda

13:45-14:00

Supernova Pointing with Multi-Detector Neutrino Light Curve Matching

Speaker

Jia-Shian Wang

14:00-14:15

The Potential for Supernova Discrimination with NEO

Speaker

Yan Jie Schnellbach

14:15-14:30

Boulby Underground Laboratory - Delivering outreach during the pandemic

Speaker

Emma Meehan

14:30-14:45

Subterranean Science and Ultra-Low Background Studies at Boulby Underground Laboratory

Speaker

Edward Banks

14:45-15:00

Cosmic ray Tomography of the Wylfa Reactor Site Using VIDARR

Speaker

Ron Collins

15:00

Tuesday 13 April

14:45

Parallel Stream 9: Astroparticle Physics 2

Session | Location: Edinburgh, Remote | Convener: Garret Cotter

14:45-15:00

New results in the search for dark matter with the DarkSide Experiment

Speaker

Paolo Agnes

15:00-15:15

New Physics Searches with Low Energy Electron Recoils in the LUX ZEPLIN Experiment

Speaker

Elizabeth Leason

15:15-15:30

Searching for Light Dark Matter with NEWS-G

Speaker

Tom Neep

15:30-15:45

A search for unvirialized axions in ADMX

Speaker

Shriram Jois

15:45-16:00

Assembling the LZ Detector

Speaker

Nicolas Angelides

16:00-16:15

Dark Noise Emission and Correlated Cross-Talk in Silicon Photomultipliers

Speaker

Joseph McLaughlin

16:15

Thursday 15 April

11:30

Parallel Stream 9: Astroparticle Physics 3

Session | **Location:** Edinburgh, Remote | **Convener:** Dr Christopher McCabe

11:30-11:45 **Novel improvements on the most sensitive axion detectors**

Speaker
Mitchell Perry

11:45-12:00 **LUX-ZEPLIN optical photon simulations using GPUs**

Speaker
Sam Eriksen

12:00-12:15 **Instrumentation of the Darkside-20K Outer Detector**

Speaker
Samuel Hill

12:15-12:30 **Dark photon searches using plasma wakefield acceleration**

Speaker
Adam Scaachi

12:30