

Session Program

13-17 May 2024



DPF - PHENO 2024

Axion

University of Pittsburgh / Carnegie Mellon University

Monday 13 May

16:00

Axion: Axion Model Building and Detection

Session | **Location:** University of Pittsburgh, David Lawrence Hall 207 | **Convener:** Dr Chen Sun

16:00–16:15 **Addressing the axion quality problem**

Speaker

Kaladi Babu

16:15–16:30 **Heavy Axion from the Twin Higgs**

Speaker

Christopher Verhaaren

16:30–16:45

A Common Origin for the QCD Axion and Sterile Neutrinos from SU(5) Strong Dynamics

Speaker

Arpon Paul

16:45–17:00 **Detecting Axion Dark Matter with Black Hole Polarimetry**

Speaker

Huangyu Xiao

17:00–17:15

Gamma rays from supernova axions converting in stellar magnetic fields: limits from SN1987A and a proposed future observatory

Speaker

Yujin Park

17:15–17:30 **Axion-Photon Sensitivity with NuSTAR Observations of M82 and M87**

Speaker

Orion Ning

17:30

Wednesday 15 May

14:00

Axion: Axion Detection and ALPs

Session | **Location:** University of Pittsburgh, Barco Law Building 109 | **Convener:** Christopher Verhaaren

14:00–14:15

Probing the Axion-Electron Coupling with Magnetized Multilayers

Speaker

Kevin Zhou

14:15–14:30

Axion-like Particles at the Electron-Ion Collider

Speaker

Monica Leys

14:30–14:45

Probing Axion-like Particles from Massive Stars with X-rays and Gamma Rays

Speaker

Takuya Okawa

14:45–15:00

Axion Magnetic Resonance: A Novel Enhancement in Axion-Photon Conversion

Speaker

Dr Chen Sun

15:00–15:15

New Directions for ALP Searches Combining Nuclear Reactors and Haloscopes

Speaker

Vedran Brdar

15:15–15:30

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15:30