

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 -

15:30