## **Session Program**

19-21 May 2025



# Phenomenology 2025 Symposium

## Astro-particle

University of Pittsburgh

## Monday 19 May

14:15-14:30	Axion dark radiation in a neutron star magnetosphere
Speaker	
Andrew Long	
14:30-14:45	Blue Loops, Cepheids, and Forays into Axions
Speaker	
Thomas Gehrm	lan
14:45-15:00	Axions from magnetized plasma: effects of plasma dispersion
Speaker	
Nirmalya Brahı	ma
15:00-15:15	
Too Fast Le	ss Furious: Three-Body Interaction with Fast Low-Mass PBHs
Speaker	
Badal Bhalla	
15:15-15:30	
Supermass	ive black hole formation in the initial collapse of axion dark matte
<b>Speaker</b> Yuxin Zhao	
15:30-15:45	Could We Observe an Exploding Black Hole in the Near Future?
Speaker	
Aidan Symons	
15:45-16:00	Twin Peak Dark Matter and Gravitational Wave Signal
Speaker	
Brenda Gomez	Cortes
Astro-nar	ticle: Neutrino, Cosmic Rays
	ation: David Lawrence Hall 104, University of Pittsburgh
16:30-17:00	Mini-Review: Novel Astrophysical Probes of the Dark Universe
Speaker	
Hongwan Liu	
17:00-17:15	Predicting the Diffuse Supernova Neutrino Background
Speaker	
Andrew Caruso	)

**Speaker** Melanie Zaidel

17:30-17:45

High-Energy Neutrinos from Scalar Decays in Primordial Black Hole Evaporation

Speaker

Mr SUJAY SHIL

### 17:45-18:00 A Search for Cosmic Ray Signatures in the RNO-G Experiment

### Speaker

Dr Alisa Nozdrina

#### 18:00-18:15 Multi-messenger Astronomy with Quenched Superradiance

Speaker

Soumya Bonthu

#### 18:15-18:30

### Testability of Dynamical Inflection Point Inflation at Collider Experiments

Speaker

Francis Burk

18:30