

Session Program

11-13 May 2026



Phenomenology 2026 Symposium

Astro-particle

University of Pittsburgh

Monday 11 May

16:30

Astro-particle: BSM, Cosmic Rays

Session | **Location:** David Lawrence Hall 104, University of Pittsburgh

16:30-16:45 **Astrophysical Consequences of an Electroweak η Pseudo-Scalar**

Speaker

Hooman Davoudiasl

16:45-17:00 **Neutron Star Eclipses as Axion Laboratories**

Speaker

Vedran Brdar

17:00-17:15 **Discovering Isolated Neutron Stars with the Vera Rubin Observatory**

Speaker

Shirley Li

17:15-17:30 **Efficient PINN Models of Cosmic Rays**

Speaker

Eric Putney

17:30-17:45

Constraining Galactic Cosmic Ray Models with a Multi-Messenger Analysis of the Diffuse Emission

Speaker

Alisha Roberts

17:45-18:00

Seeing the Invisible: Mini-CoRTE_x and Real-Time 3D Visualization of Cosmic-Ray Muons

Speaker

Yuvaraj Elangovan

18:00-18:15

Naturalness in Soft SUSY Leptogenesis and Gravitino Mass Bound due to PBH

Speaker

SUHAIL KHAN

18:15-18:30 **Monopole phenomenology from the electroweak anomaly**

Speaker

Jiawei (Vivian) Gao

18:30

Tuesday 12 May

16:30

Astro-particle: Dark Matter

Session | **Location:** University of Pittsburgh

16:30-16:45 **Heavy dark matter in rapidly evolving massive stars**

Speaker

Walter Tangarife

16:45-17:00 **Enabling Forbidden Dark Matter from a First-Order Phase Transition**

Speaker

Mr Partha Kumar Paul

17:00-17:15 **Gaia at the Forefront of Dissipative Dark Matter Searches: Exchanges**

Speaker

Jackie Lodman

17:15-17:30

Ultra-Strongly Self-Interacting Dark Matter and the Origin of Little Red Dots

Speaker

M. Grant Roberts

17:30-17:45 **Probing Ultralight Dark Matter via Caustic Crossings in Giant Arcs**

Speaker

Carlos Ramos Portalatino

17:45-18:00

Dark Secrets of Baryons: Illuminating Dark Matter-Baryon Interactions with JWST

Speaker

Souradeep Das

18:00-18:15

Circumstellar Medium of Supernovae as New Probes for Feebly-interacting Particles

Speaker

Yu Cheng

18:15-18:30

Revisiting extremely high energy QED bremsstrahlung in matter: large modifications to the LPM effect

Speaker

Joshua Bautista

18:30