

## Session Program

8-10 May 2023



# Phenomenology 2023 Symposium

## *DM II*

University of Pittsburgh  
Pittsburgh, PA 15260

# Tuesday 9 May

14:00

## DM II

**Session** | **Location:** Lawrence Hall 203 | **Convener:** Sandra Robles

14:00-14:15

### Constraining Dark Matter Substructure With Gaia Wide Binaries

**Speaker**

Edward Ramirez

14:15-14:30

### Measuring Dark Matter in the Solar Neighborhood using Normalizing Flows and Gaia DR3

**Speaker**

Eric Putney

14:30-14:45

### The dark matter profile of the Milky Way inferred from its circular velocity curve

**Speaker**

Xiaowei Ou

14:45-15:00

### Dark Matter-Induced Baryonic Feedback in Galaxies

**Speaker**

Yilda Boukhtouchen

15:00-15:15

### Probing the Local Dark Matter Halo with Neutrino Oscillations

**Speaker**

Dr Andrey Shkerin

15:15-15:30

### Solar reflection of light dark matter with light mediators

**Speaker**

Hailin Xu

15:30-15:45

### Heating of Neutron Stars through Scattering and Capturing of Inelastic Dark Matter with Ultra-Relativistic Targets

**Speaker**

Mr Mehrdad Phoroutan-Mehr

15:45-16:00

### Neutrino and Gamma Ray Annihilation Signatures From Inelastic Dark Matter Around Neutron Stars

**Speaker**

Narayani Tyagi

16:00