

## **Session Program**

**4 May 2024**

# **PIKIMO Spring 2024**

## ***Talks***

Loomis Laboratory of Physics, Room 151  
1110 W Green St, Urbana, Illinois 61801

# Saturday 4 May

09:35

## Talks: Morning Session 1

**Session** | **Location:** Loomis Laboratory of Physics, Room 151, 1110 W Green St, Urbana, Illinois 61801 | **Convener:** Christina Gao

09:35–09:55

### Detecting Axion Dark Matter with Black Hole Polarimetry

#### Speaker

Xucheng Gan

09:55–10:15

### Statistics of axion wind detection with superfluid Helium-3

#### Speaker

Aarav Mande

10:15

10:35

## Talks: Morning Session 2

**Session** | **Location:** Loomis Laboratory of Physics, Room 151, 1110 W Green St, Urbana, Illinois 61801 | **Convener:** Wen Han Chiu

10:35–10:55

### Visible Axinovae: Axion Star Explosions with Photon Emissions

#### Speaker

Huangyu Xiao

10:55–11:15

### Generalized Global Symmetries and Nonperturbative Quantum Flavodynamics

#### Speaker

Seth Koren

11:15–11:35

### Amplifying CMB phase shift with dark matter-radiation interactions

#### Speaker

Daven Wei Ren Ho

11:35

13:55

## Talks: Afternoon Session 1

**Session** | **Location:** Loomis Laboratory of Physics, Room 151, 1110 W Green St, Urbana, Illinois 61801 | **Convener:** Shashin Pavaskar

13:55–14:15

### Multi-electron muon decays

#### Speaker

Tony Menzo

14:15–14:35

### Large Blue Spectral Index From a Conformal Limit of a Rotating Complex Scalar

#### Speaker

SAI CHAITANYA TADEPALLI

14:35–14:55

### Topological aspects of particle production in the early universe

#### Speaker

Ms Nidhi Sudhir

14:55

16:10

17:10

**Talks: Afternoon Session 2**

**Session** | **Location:** Loomis Laboratory of Physics, Room 151, 1110 W Green St, Urbana, Illinois 61801 |  
**Convener:** Avery Tishue

16:10–16:30    **A tale of tails via QCD insights**

**Speaker**  
Alex Edison

16:30–16:50    **Seeing highly anisotropic gravitational wave backgrounds from the early universe**

**Speaker**  
Arushi Bodas

16:50–17:10    **Crescendo Beyond the Horizon: More Gravitational Waves from Domain Walls Bounded by Inflated Cosmic Strings**

**Speaker**  
Yunjia Bao