

**Session Program**

**21-25 Jul 2025**

**PASCOS 2025**

***Cosmology and Astrophysics***

Durham

# Monday 21 July

16:00

## Cosmology and Astrophysics

**Session** | **Location:** CLC203

16:00-16:20

### Gravitational Wave with Domain Wall Dominance

**Speaker**

Sung Mook Lee

16:20-16:40

### Effects of Superradiance in Active Galactic Nuclei

**Speaker**

Priyanka Sarmah

16:40-17:00

### Cosmological post-Newtonian approximation of a Lorentz-violating vector field

**Speaker**

Jai-chan Hwang

17:00-17:20

### On geometrical destabilization during inflation

**Speaker**

Tomasz Krajewski

17:20-17:40

### Gravitational wave production during reheating: From the inflaton to primordial black holes

**Speaker**

Rishav Roshan

17:40-18:00

### Bayesian Optimisation for efficient cosmological model selection

**Speaker**

Ameek Malhotra

18:00

# Tuesday 22 July

16:00

## Cosmology and Astrophysics

Session | Location: CLC203

16:00-16:20

### Multi-(super)field Inflation in Supergravity without Stabilizer Fields

#### Speaker

Takahiro Terada

16:20-16:40

### Antinuclei from Primordial Black Holes

#### Speaker

Agnese Tolino

16:40-17:00

### Some novel and attractive features of Warm Inflation

#### Speaker

Suratna Das

17:00-17:20

### A Generalized Numerical Framework for Constraining Warm Inflation Models Using CMB Data

#### Speaker

Umang Kumar

17:20-17:40

### Gravitational Wave Duet by Resonating Binary Black Holes with Axion-Like Particles

#### Speaker

Xing-Yu Yang

17:40-18:00

### The Quasi-Palatini Formulation of Nonminimal Gravity

#### Speaker

Sotirios Karamitsos

18:00-18:20

### Accelerating Modern Cosmology with Symbolic Emulation

#### Speaker

David Vokrouhlicky

18:20

# Thursday 24 July

16:00

## Cosmology and Astrophysics

Session | Location: CLC203

16:00-16:20

### In Search of Cosmic Topology Using Artificial Intelligence

#### Speaker

Andrius Tamosiunas

16:20-16:40

### Constraining the shape of the Universe using Circle Searches

#### Speaker

Deyan Mihaylov

16:40-17:00

### Do we live on the End of the World?

#### Speaker

Benjamin Muntz

17:00-17:20

### The Hubble Tension and Primordial Magnetic Fields

#### Speaker

Levon Pogosian

17:20-17:40

### Current constraints on very low reheating temperatures

#### Speaker

Sergio Pastor

17:40-18:00

### The Shape of Space in Polarized Light

#### Speaker

Mikel Martin Barandiaran

18:00-18:20

### Primordial Black Holes from Resonances in the Running-Mass-Inflation Model

#### Speaker

Mindaugas Karciauskas

18:20

## Friday 25 July

14:00

### Cosmology and Astrophysics

Session | Location: CLC203

14:00-14:20

#### Searching for Quadratically Coupled Ultra-Light Dark Matter

##### Speaker

Clare Burrage

14:20-14:40

#### Hairy Black Holes by Spontaneous Symmetry Breaking in ESGB theory

##### Speaker

Miok Park

14:40-15:00

#### Novel constraints on the primordial power spectrum at sub-Mpc scales from compact objects formation

##### Speaker

Sergio Sevilano Muñoz

15:00-15:20

#### Black Hole Solutions of Palatini Nonlinear Electrodynamics and their Characteristics

##### Speaker

Yosef Verbin

15:20-15:40

#### Clustering Effects on Primordial Black Hole Merger Rates

##### Speaker

Shunsuke Neda

15:40-16:00

#### Star shearing season: transient signals from black hole formation

##### Speaker

Yann Cado

16:00