

**Programme des sessions**

6-31 juil. 2026

**GGI workshop: Exploring New Frontiers in Cosmology**

***Student Talks***

Galileo Galilei Institute

## ven. 10 juillet

14:00

**Student Talks: Session 1**

Session | Site: Galileo Galilei Institute

14:00 – 14:10 **Cosmology with Torsion and Nonmetricity****Orateur**

Ilaria Andrei

14:10 – 14:20 **Inverse non-metricity in  $f(Q)$  gravity: cosmology and observational constraints****Orateur**

Simão Marques Nunes

14:20 – 14:30

**Revisiting Quadratic Scalar Field (Fuzzy, Wave, Ultralight) Dark Matter in Light of DESI DR2 and Current Cosmological Observations****Orateur**

Hafiz Inam ullah

14:30 – 14:40 **Taming Instabilities in Mass-Varying Neutrino Cosmology****Orateur**

Vitor da Fonseca

14:40 – 14:50 **On the potential of pseudo-scalar dark energy****Orateur**

Yunzhi Wu

14:50 – 15:00 **Constraining DDE Models with AdS-to-dS and Similar Late-Time Transitions****Orateur**

Mine Gökçen

15:00 – 15:10 **Understanding the Dark Sector through reconstructions****Orateur**

David A López Magaña

15:10 – 15:20 **Reconstructing dark energy with fewer assumptions****Orateur**

Daniel Kessler

15:20 – 15:30 **Multi-field early dark energy and the Hubble tension****Orateur**

Marco Bella

15:30 – 15:40 **Non-linear structure of interacting dark energy model****Orateur**

Yuejia Zhai

15:40

16:10

**Student Talks: Session 2**

Session | Site: Galileo Galilei Institute

16:10 – 16:20

**Likelihood-Ratio Tests with Correlated Parameter Boundaries: Implications for CMB B-mode Searches****Orateur**

Georgia Kiddier

16:20 – 16:30

**Cosmic birefringence from a stiff axion-like field****Orateur**

Andrea Minotti

16:30 – 16:40

**Cosmic Birefringence and Axion Dark Energy****Orateur**

Lena Stefanie Scheuchl

16:40 – 16:50

**CMB spectral distortion anisotropies from photon to dark photon conversions****Orateur**

Sara Evangelista

16:50 – 17:00

**Constraining Primordial Magnetic Fields using Rayleigh Scattering of CMB****Orateur**

Kwanit Gangopadhyay

17:00 – 17:10

**Exploring the Lyman-Alpha Forest in a Dynamical Dark Energy Cosmology using Cholla****Orateur**

Diego Garza

17:10 – 17:20

**Dark energy, spatial curvature, and star formation efficiency from JWST photometric and spectroscopic high-redshift galaxies****Orateur**

Leonardo Comini

17:20 – 17:30

**Measuring the Expansion Rate of the Universe with Strong Gravitational Lenses****Orateur**

Allan Gabriel Schweinfurth Pupo

17:30 – 17:40

**Galaxy clusters as cosmic lenses for high frequency gravitational-waves****Orateur**

Tiziano Zanzarella

17:40 – 17:50

**Constraining the lensing dispersion from the angular clustering of binary black hole mergers****Orateur**

Fumihito Chuman

17:50