

Session Program

22-26 Aug 2022



COSMO'22

Parallel Session Main Cupula: DM

Rio de Janeiro
Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

Monday 22 August

14:00

Parallel Session Main Cupula: DM: LSS

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

14:00–14:20

Anisotropic Superclustering of Cosmic Gas: an analysis with ACT+Planck and DES data

Speaker

Martine Lokken

14:20–14:40

The lensing amplitude $A_L=1$ is not a good cosmological parameter for the Λ CDM model

Speaker

Armando Bernui

14:40–15:00

Field Level Neural Network Emulator for Cosmological N-body Simulations

Speaker

Dr Drew Jamieson

15:00–15:20

On the recoverability of the BAO signal on BINGO HI IM simulations

Speaker

Camila Novaes

15:20–15:40

Bias Expansion for Covariance Matrices

Speaker

Francisco Maion

15:40

16:10

Parallel Session Main Cupula: DM

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

16:10–16:30

Gauged B-L interacting sterile neutrino dark matter revisited

Speaker

Osamu Seto

16:30–16:50

Unified description of corpuscular and fuzzy scalar dark matter

Speaker

Alex Soto

16:50–17:10

BBN Photodisintegration Constraints on Gravitationally Produced Vector Bosons

Speaker

Chee Sheng Fong

17:10–17:30

The search of dark satellites with gamma rays

17:30

Speaker

Dr Miguel A. Sánchez-Conde

Tuesday 23 August

14:00

Parallel Session Main Cupula: DM

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

14:10–14:30

First measurement of projected phase correlations and large-scale structure constraints

Speaker

Dr Felipe Oliveira Franco

14:30–14:50

Constraints on dark interactions with the EFTofLSS and BOSS

Speaker

Pedro Carrilho

14:50–15:10

E and B-modes in Light-Cone perturbations

Speaker

Matheus Medeiros

15:40

16:25

Parallel Session Main Cupula: DM

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Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

16:25–16:45

Classical and quantum probes of axionlike particles

Speaker

David Marsh

16:45–17:05

Gravitational wave signatures of axionic domain walls

Speaker

Ricardo Zambujal Ferreira

17:05–17:25

New opportunities for axion dark matter searches in nonstandard cosmological models

Speaker

Maira Venegas

17:25

Wednesday 24 August

11:25

Parallel Session Main Cupula: DM

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

11:25-11:45

Dark Matter Annihilations in Massive Stars: A New Lease on Life?

Speaker

Joshua Ziegler

11:45-12:05

Using gravitational waves to detect dark matter

Speaker

Andrew Miller

12:25

Thursday 25 August

14:00

Parallel Session Main Cupula: DM: Modified Gravity & Dark Energy

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

14:00–14:20

Cosmology with galaxy clustering: a joint analysis of the power spectrum and bispectrum

Speaker

Chiara Moretti

14:20–14:40

Spherical Collapse of non-top-hat profiles in the presence of dark energy with arbitrary sound speed

Speaker

Prof. Ronaldo C Batista

14:40–15:00

Does General Relativity hold in galactic scales? A test at a $z \sim 0.3$ elliptical lens galaxy

Speaker

Carlos Melo

15:00–15:20

Effective Field Theory of Black Hole Perturbations with Timelike Scalar Profile

Speaker

Dr Vicharit Yingcharoenrat

15:20–15:40

Testing dark matter in galaxies with the normalized additional velocity distribution

Speaker

Davi Rodrigues

15:40

16:10

Parallel Session Main Cupula: DM

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16:10–16:30

Direct detection with superconducting nanowires

Speaker

Benjamin Lehmann

16:30–16:50

The Euclid mission NISP instrument: performances and data simulations

Speaker

Antonino Troja

16:50–17:10

Dark Matter search by the XENON collaboration

Speaker
Joran Angevaare

17:10–17:30 **Cosmic birefringence mediated by dark U (1)**

Speaker
Jinn-Ouk Gong

17:30

Friday 26 August

14:00

Parallel Session Main Cupula: DM: Statistical Methods and Tensions in Cosmology

Session |

Location: Rio de Janeiro, Vice-Governador Rúbens Berardo street, 100 - Gávea Rio de Janeiro - 22451-070

14:00–14:20

Primordial Black Holes from Multifield Inflation with Non-minimal Couplings

Speaker

Sarah Geller

14:20–14:40

The first dark matter halos as probes of cosmology

Speaker

Dr M. Sten Delos

14:40–15:00

Dark Matter from Preheating

Speaker

Prof. Marcos A. Garcia Garcia

15:20

16:35

Parallel Session Main Cupula: DM: DM

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16:35–16:55

Radial oscillations of quark stars admixed with dark matter

Speaker

Eduardo Fraga

16:55–17:15

EFT Approach to Black Hole Scalarization and its Compatibility with Cosmic Evolution

Speaker

Simón Riquelme

17:15