

Session Program

8-10 Sept 2021



CoCo 2021: Cosmology in Colombia

CoCo

Wednesday 8 September

09:00

CoCo

Session

09:00–10:00 **Model-building Cosmic Inflation and Dark Energy**

Speakers

KONSTANTINOS DIMOPOULOS, Konstantinos Dimopoulos

10:00–10:40 **The hitchhiker's guide to ghost freedom**

Speaker

Dr Verónica Errasti

10:40

11:00

CoCo

Session

11:00–11:20 **Phantom-like dark energy from quantum gravity**

Speaker

Xiankai Pang

11:20–11:40 **Small Field Polynomial Inflation**

Speaker

Mr Yong Xu

11:40–12:00 **Early Dark Energy models**

Speaker

Dr Luz Ángela García

12:00

14:00

CoCo

Session

14:00–14:20 **Extended SU(2) Proca theory**

Speaker

Carlos Mauricio Nieto Guerrero

14:20–14:40 **Astrophysical solutions in the generalized SU(2) Proca theory**

Speaker

Jhan Nicolás Martínez Lobo

14:40–15:00

Dirac algorithm and counting of degrees of freedom for the complete Maxwell-Proca theory in flat spacetime

Speaker

Jessica Hernández

15:00

15:20

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Session

15:20-15:40

Conformally and Disformally Coupled Vector field Models of Dark Energy

Speaker

Gabriel Gómez

15:40-16:00

Cosmological analysis of Barrow holographic dark energy model considering the Granda-Oliveros infrared cutoff

Speaker

Miguel Sabogal Garcia

16:00-16:20

NANOGrav Collaboration: The search for signs of modified gravity with PTAs

Speaker

Alexander Bonilla Rivera

16:20

Thursday 9 September

09:00

CoCo

Session

09:00–10:00 **Recent results from the Dark Energy Survey**

Speaker

Prof. Rogerio Rosenfeld

10:00–10:20

Cosmological constraints with the Effective Fluid approach for Modified Gravity

Speaker

WILMAR ALBERTO CARDONA CASTRO

10:20

10:40

CoCo

Session

10:40–11:00 **Varying Higgs VEV in Cosmology and an Axionic Solution**

Speaker

LINGFENG LI

11:00–11:20

Comprehensive Analysis of a Non-Singular Bounce in $f(R, T)$ Gravitation

Speaker

Mr SNEHASISH BHATTACHARJEE

14:00–14:20

Banks Zaks Cosmology

Speaker

Utkarsh KUMAR

14:20

14:00

CoCo

Session

14:20–14:40 **Emptiness vs. Incompleteness: Selection effects on Cosmic Void BAO**

Speaker

Daniel Felipe Forero Sanchez

14:40–15:00

Ajuste de parámetros cosmológicos mediante distancias de luminosidad de supernovas tipo Ia.

Speaker

Prof. Alexander Moreno

15:20–15:40

Implementación de Algoritmos de Aprendizaje Automático en la Clasificación de Exoplanetas

Speaker

Mrs Kimberly Johana Rincón Valencia

15:40-16:00

**FUNCION DE CORRELACION DE DOS PUNTOS EN EL FORMALISMO
PERTURBACIONES - HALO**

Speaker

Fernando Alonso Velez Reyes

16:00

Friday 10 September

09:00

CoCo

Session

09:00–10:00 **Quintessential inflation: A tale of emergent and broken symmetries**

Speakers

Javier Rubio, Javier Rubio

10:00–10:20 **DM capture in WDs**

Speaker

Maura Ramirez

10:20

10:40

CoCo

Session

10:40–11:00

Probing the effects of primordial black holes on 21-cm EDGES signal along with interacting dark energy and dark matter - baryon scattering

Speaker

Ashadul Halder

11:00–11:20 **Asymmetric dark matter from scatterings**

Speaker

deep ghosh

11:20–11:40 **Gravitational waves and Baryogenesis from ultralight PBHs**

Speaker

Mr Satyabrata Datta

11:40

14:00

CoCo

Session

14:00–14:20

Numerical study of the 1D Schrödinger-Poisson equation for Ultra light Cold Dark Matter

Speaker

victor loaiza

14:20–14:40

A Simplified Dark Matter Model for Muon g-2 with Scalar Lepton Partners at the TeV Scale

Speaker

Jan Tristram Acuña

14:40–15:00 **Protochime: First steps towards a gravitational dark matter detector**

Speaker

Juan Pablo Arcila Maldonado

15:00

15:20

CoCo**Session**

15:20–15:40

Imprint of the seesaw mechanism on feebly interacting dark matter and the baryon asymmetry**Speaker**

Rishav Roshan

15:40–16:00

Non-minimally Coupled Vector Boson Dark Matter**Speaker**

Basabendu Barman

16:00–16:20

New opportunities for axion dark matter searches in nonstandard cosmological models**Speaker**

Maira Venegas

16:20–16:40

Axion Dark Matter in the Time of Primordial Black Holes**Speaker**

Nicolás Bernal

16:40