

Session Program

30-31 May 2019



CoCo 2019: Cosmología en Colombia

Cosmology

Other Institutes

Universidad Antonio Nariño - Sede Circunvalar Carrera 1 # 47A - 15, Bogotá Teatrino 1 <https://goo.gl/maps/84pprmM9ZJS2>

Wednesday 29 May

09:30

Cosmology: Cosmology

Session |

Location: Other Institutes, Universidad Antonio Nariño - Sede Circunvalar Carrera 1 # 47A - 15, Bogotá Teatrino 1
<https://goo.gl/maps/84pprmM9ZJS2>

09:30-10:00

Constrains on Dark Energy with cosmological proxies

Speaker

Luz Garcia

10:00-10:30

Anisotropic 2-form dark energy

Speaker

Dr César A. Valenzuela-Toledo

10:30-10:45

Regular black holes with exotic topologies

Speaker

Mr Gustavo Melgarejo

10:45

11:15

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11:15-11:45

Can we use "climate change" on Neutron Stars to detect dark matter?

Speaker

Daniel Camargo

11:45-12:15

The cosmic web as a cosmological probe in the Dark Energy Spectroscopic Instrument

Speaker

Mr Jaime Forero-Romero

12:15-12:30

Bayesian treatment of distance errors in the cosmic distance ladder

Speaker

Prof. Germán Chaparro

12:30

14:30

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14:30-14:45

Constraining cosmological parameters with the β -skeleton of the cosmic web

Speaker

María Valentina García Alvarado

14:45-15:00

A Large Scale Structure Void Identifier for Galaxy Surveys Based on the Beta-Skeleton Graph Method

Speaker
Mr Felipe Gómez-Cortés

15:00-15:15 **Galaxy Bias in Illustris Simulations**

Speaker
Ms Y. D Camargo-Camargo

15:15-15:30

Clasificación y determinación de redshift de espectros astrofísicos mediante Redes Neuronales Convolucionales.

Speaker
Mr Jairo Andres Saavedra Alfonso

15:30-15:45

Understanding the large scale dark matter distribution with machine learning algorithms.

Speaker
Mr John Suárez-Pérez

15:45

16:15

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16:15-16:30 **Supercluster characterization in cosmological simulations**

Speaker
Mr David Leonardo Paipa Leon

16:30-16:45 **Dark energy with vector fields in the generalized SU(2) Proca theory**

Speaker
Mr Andrés Américo Navarro León

16:45-17:00 **Einstein Yang-Mills Higgs dark energy revisited**

Speaker
Mr Miguel Alvarez

17:00-17:15 **Applying the Compressed Sensing Protocol on Cosmological Signals**

Speakers
Diego Andrés Barbosa Trujillo, Jaime Forero-Romero

17:30

Thursday 30 May

09:30

Cosmology: Cosmology

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09:30-10:00

The spin of primordial black holes

Speaker

Jorge Noreña

10:00-10:30

GENERALIZED SU(2) PROCA INFLATION

Speaker

Yeinzon Rodriguez Garcia

10:30-10:45

A systematic procedure to build the beyond generalized Proca field theory

Speaker

ALEXANDER GALLEGO CADAVID

10:45

11:15

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11:15-11:45

Dark matter phase transitions and gravitational waves

Speaker

Dr Camilo Garcia Cely

11:45-12:15

Slow-roll Inflation with non-minimal kinetic coupling

Speaker

Prof. Luis Granda

12:15-12:30

Reconstructing Non-standard Cosmologies with Dark Matter

Speaker

Alan Herrera

12:30

14:30

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14:30-14:45

Constraining the Generalized SU(2) Proca theory at minimal cost

Speaker

gabriel gomez

14:45-15:00

Propagation of waves and eikonal approximation in the Horndeski's vector-tensor theory

Speaker

Juan Pablo Beltran

15:00–15:15

The Scalar Galileon and its constraints from GW170818 and GRB170817A**Speakers**

Mr Jhan Nicolás Martínez Lobo, Dr Yeinzon Rodríguez

15:15–15:30

Correlation functions of sourced gravitational waves in inflationary scalar vector models. A symmetry based approach**Speaker**

Mr Josue Motoa Manzano

15:30–15:45

Anisotropic inflation with coupled p-forms**Speaker**

Alejandro Guarnizo

15:45

16:15

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16:15–16:30

Primordial Gravitational Waves in Non-Standard Cosmologies**Speaker**

Nicolás Bernal

16:30–16:45

Primordial Black Holes and the 21cm Line**Speaker**

Dr Sergio Palomares-Ruiz

16:45–17:00

An exact solution to the gravity of Bakry-Émery-Ricci**Speaker**

Jonathan Ramírez

17:00–17:15

Quasilocal Smarr relations for static black holes**Speaker**

Mr Fabián Darío Villalba

17:15