

Session Program

30 September 2019 to 2 October 2019



MOCa 2019: Materia Oscura en Colombia

Plenaries

Other Institutes

Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

Monday 30 September

09:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

09:00–10:00

Mirror world dark matter

Speaker

Chee Sheng Fong

10:00–10:30

Phenomenological and experimental searches for compressed stau-neutralino production at the LHC

Speaker

Mr Alejandro Segura

10:30

11:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

11:00–11:30

Top Quark Interactions in Simplified Dark Matter Models

Speaker

Dr Alexander Moreno Briceño

11:30–12:00

Charged current $b \rightarrow c \tau \nu^- \tau$ anomalies in a general W' boson scenario

Speaker

Eduardo Rojas

12:00

14:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

14:00–14:30

Anapole Dark Matter via Vector Boson Fusion Processes at the LHC

Speaker

Carlos Andres Florez Bustos

14:30–15:00

Search for Electroweakinos produced via Vector Boson Fusion with the CMS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV

Speaker

Carlos Avila Bernal

15:00–15:30

Searching for DM and HNL with the ATLAS detector

Speaker

Gabriela Alejandra Navarro

15:30

16:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

16:00–16:30

Dark matter halo shapes in the Auriga simulations

17:00

Speaker

Jaime Forero-Romero

16:30–17:00

Simulando materia oscura colisional

Speaker

Javier Alejandro Acevedo Barroso

Tuesday 1 October

09:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

09:00–09:30

Materia Oscura: retos y problemas abiertos

Speaker

Carlos E. Yaguna

09:30–10:00

Singlet-Doublet Dirac Dark Matter and Neutrino Masses

Speaker

Dr Andrés Felipe Rivera Romero

10:00–10:30

Reconstructing Non-standard Cosmologies with Dark Matter

Speaker

Nicolás Bernal

10:30

11:00

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

11:00–11:30

Multicomponent dark matter and the inert doublet model

Speaker

Amalia Betancur Rodríguez

11:30–12:00

On the Optical Properties of Cosmic Telescopes: A Spectroscopy study of the inner core of a Massive Galaxy Cluster

Speaker

Dr Camilo Delgado-Correal

12:00

14:00

Plenaries

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14:00–14:30

Axion inflation with derivative a coupling to the gravitational field

Speaker

Mr Juan Pablo Beltran

14:30–15:00

Einstein Yang-Mills Higgs dark energy revisited

Speaker

Mr J. Bayron Orjuela-Quintana

15:00

15:30

Plenaries

Session | **Location:** Other Institutes, Universidad de los Andes Edificio Santo Domingo (SD) salón 802 (SD-802)

15:30–16:30

Dark Matter in Non Standard Cosmologies

Speaker

James Unwin

17:00

16:30-17:00

Round table