



# MOCa 2018: Materia Oscura en Colombia

## Monday, 30 July 2018

### Dark Matter (09:00 - 10:30)

| time  | [id] title  | presenter         |
|-------|---|-------------------|
| 09:00 | [21] DM review  | E. YAGUNA, Carlos |
| 10:00 | [10] Neutrino Background in Dark Matter Direct Detection Experiments: Standard Model and beyond | PEREZ, Yuber      |

### Dark Matter (11:00 - 12:00)

| time  | [id] title   | presenter               |
|-------|--|-------------------------|
| 11:00 | [18] Search for Heavy Stable Charged Particles in the CMS Experiment using the RPC phase II upgraded detectors | CARRILLO, Camilo        |
| 11:30 | [15] Search for Heavy Neutral Leptons in ATLAS and DUNE Experiment   | Dr MORENO LOPEZ, Deywis |

### Dark Matter (14:00 - 17:00)

| time  | [id] title   | presenter                          |
|-------|--|------------------------------------|
| 14:00 | [24] Minimal Dirac neutrino models                                       | ALEJANDRO RESTREPO QUINTERO, Diego |
| 14:30 | [2] Spin-2 Portal Dark Matter  | BERNAL, Nicolás                    |
| 15:00 | [6] Minimal Z' models  | Dr ROJAS, Eduardo                  |
| 15:30 | [8] Current constraints on the Doublet-Triplet fermion dark matter model | BETANCUR RODRÍGUEZ, Amalia         |
| 16:00 | [23] {Beyond the standard model from noncommutative geometry             | JIMENEZ GIRALDO, Fredy Angel       |

# Tuesday, 31 July 2018

## Dark Matter (09:00 - 10:30)

| time  | [id] title   | presenter                            |
|-------|--|--------------------------------------|
| 09:00 | [3] The expected shape of the Milky Way's dark matter halo                           | FORERO-ROMERO, Jaime                 |
| 09:30 | [4] Simulating Collisional Dark Matter   | ACEVEDO BARROSO, Javier<br>Alejandro |
| 10:00 | [11] Novel constraints on the phase space of fermionic dark matter in dwarf galaxies | Dr GOMEZ, gabriel                    |

## Dark Matter (11:00 - 12:00)

| time  | [id] title  | presenter                         |
|-------|---|-----------------------------------|
| 11:00 | [17] Search for dark matter produced in association with a Higgs boson decaying to pair of bottom quarks using $\sqrt{s}=13$ TeV of proton collisions at ATLAS detector | PORTILLO QUINTERO, Dilia<br>Maria |
| 11:30 | [19] Dark Matter and Vectors Boson Fusion   | FLOREZ BUSTOS, Carlos<br>Andres   |

## Dark Matter (14:00 - 17:00)

| time  | [id] title   | presenter                |
|-------|--|--------------------------|
| 14:00 | [9] Inflationary axions with non-minimal couplings with gravity              | BELTRAN ALMEIDA, Juan P. |
| 14:30 | [16] Bound-state dark matter and neutrino mass                               | Prof. ZAPATA, Oscar      |
| 15:00 | [14] Choosing the On-Shell Renormalization Scheme in the Complex MSSM        | VON DER PAHLEN, Federico |
| 15:30 | [20] Transición de fase electrodébil en modelos más allá del Modelo Estándar | CORREA LOPEZ, ALEJANDRO  |
| 16:00 | [22] Panel discussion  |                          |