

Session Program

29 November 2021 to 3 December 2021



6th ComHEP: Colombian Meeting on High Energy Physics

Dark Matter

Tuesday 30 November

08:00

Dark Matter

Session | **Conveners:** Nicolás Bernal, José David Ruiz-Álvarez, Oscar Zapata

08:00–08:30 **Dark matter at the LHC**

Speaker

Steven Lowette

08:30–09:00 **Multicomponent dark matter**

Speaker

Genevieve Belanger

09:00–09:30 **Future probes of light bosons**

Speaker

Dr Luca Visinelli

09:30–09:50 **Recent Results of Dark Sector Searches with the BaBar Experiment**

Speaker

Brian Shuve

09:50–10:10 **Signatures of primordial black hole dark matter at DUNE and THEIA**

Speaker

Valentina De Romeri

10:10–10:35 **Break**

10:35–10:55 **Dark Matter in a scotogenic model with a $U(1)_{L\mu - L\tau}$**

Speaker

Prof. Roberto Lineros

10:55–11:15 **Spin 3/2 dark matter in the radiative seesaw**

Speaker

David Suárez

11:15–11:35

Vector Boson Fusion Topology and Simplified Models for Dark Matter searches at colliders

Speaker

Daniel Ocampo Henao

11:35–11:55

Search for vector-like fermions in final states with muons and missing transverse momentum at the HL LHC.

Speaker

Anderson Alexis Ruales Barbosa

11:55–12:00

Scalar potential analysis of the Z5 multi-component dark matter model

Speaker

Mr Diego Alejandro Ríos Pérez

12:00-12:05

Left-Right Mirror Model with Dark Matter

Speaker

Jose Halim Montes de Oca Yemha

12:05-12:10

Dark matter in universal scotogenic Left Right gauge model

Speaker

Dr Mario Lamprea

12:10-12:15

Neutrinos pesados de Majorana y el origen de la materia oscura en el paradigma de Freeze-in.

Speaker

Belcy Rocío Portilla Rojas

12:35