

## **Session Program**

**28 November 2022 to 2 December 2022**



## **7th ComHEP: Colombian Meeting on High Energy Physics**

***LHC results***

# Thursday 1 December

14:00

## LHC results

**Session** | **Location:** | **Conveners:** Gabriela Alejandra Navarro, Carlos Sandoval Usme

14:00–14:45 **Jet physics at the LHC**

**Speaker**

Reina Coromoto Camacho Toro

14:45–15:30 **BSM Physics at the LHC, status and perspectives**

**Speaker**

Carlos Andres Florez Bustos

15:30–16:00 **Break**

16:00–16:20 **Quarkophobic  $W'$  for LHC searches**

**Speaker**

Jose Ruiz

16:20–16:40

**Searches of new physics in the final state  $B \tau \nu$  in  $pp$  collisions**

**Speaker**

Tomas Atehortua Garces

16:40–17:00

**Use of the Lund plane technique for the identification of  $W$  bosons in ATLAS experiment**

**Speaker**

Rafael Andrei Vinasco Soler

17:00–17:20

**Feasibility studies for searches enhanced by machine learning methods of leptoquarks with preferential couplings to third generation fermions at the LHC.**

**Speaker**

Cristian Rodriguez

17:20–17:40

**Machine learning approach for vector boson fusion identification**

**Speaker**

Mr Anderson Alexis Ruales Barbosa

17:40–17:45

**Boosted Higgs boson in association with a vector boson**

**Speaker**

Juan Manuel Moreno Perez

17:45–17:50

**Calibration of the Jet Vertex Tagger algorithm in the ATLAS detector**

**Speaker**

Ms Laura Juliana Caviedes Betancourt

17:50–18:10

**COFFEA: Columnar Object Framework For Effective Analysis**

18:30

**Speaker**

Daniel Ocampo Henao