Contribution ID: **50** Type: **Regular Talk (15'+5')**

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

Thursday 1 December 2022 16:40 (20 minutes)

Particle tagger methods are a powerful tool to filter unwanted data and improve the final results of the experiment. In this case, the performance of different tagger methods of W bosons in collision events of the ATLAS experiment will be studied, taking special attention to the methods based on the so-called Lund Jet Plane, which according to preliminary results presents a better performance than the methods currently used.

Author: VINASCO SOLER, Rafael Andrei (Universidad Nacional de Colombia (CO))

Co-authors: SANDOVAL USME, Carlos (Universidad Nacional de Colombia); CAMACHO TORO, Reina Coromoto (LPNHE-Paris CNRS/IN2P3)

Presenter: VINASCO SOLER, Rafael Andrei (Universidad Nacional de Colombia (CO))

Session Classification: LHC results

Track Classification: LHC-1