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Measurement of neutral mesons in pp collisions at ¥$sqrts$ = 5.02 TeV via photon conversion method with ALICE

Measurement of neutral mesons, such as ¥pi^0 and ¥eta plays an important role to study parton energy loss in the Quark-Gluon Plasma created in high-energy heavy-ion collisions. Such measurement in pp collisions at ¥$sqrts$ = 5.02 TeV provides a good reference for understanding the mechanisms appearing in p-Pb and Pb-Pb collisions at the same collision energy.
In ALICE, we measure ¥pi^0 and ¥eta mesons by using calorimeters, and photon conversion method (PCM). These different methods make it possible to measure neutral mesons in a very wide $p_{¥rmT}$ range. In the PCM, neutral mesons are measured by detecting decay photons converted in electron-positron pairs which are reconstructed in the ALICE central barrel detectors, Inner tracking system and Time Projection Chamber. In this poster, we will present a detailed description of the analysis and the status of the measurements will be discussed.

Preferred Track

Jets and High pT Hadrons

Collaboration

ALICE

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