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Measurement of neutral mesons in pp collisions at $\sqrt{s} = 5$ TeV via photon conversions in ALICE

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Measurements of neutral meson spectra in pp collisions provide a good opportunity to test pQCD calculations at high p_T .

The ratio η to π^0 allows to study phenomenological principles like m_T scaling at low p_T . Furthermore, π^0 and η spectra in pp collisions provide a reference to understand the mechanisms appearing in p-Pb and Pb-Pb collisions at the same collision energy. The spectra are also important for the description of the decay photon background in direct photon measurements.

In ALICE, we measure π^0 and η mesons by using PHOS and EMCal calorimeters as well as the photon conversion method (PCM).

These different methods make it possible to measure neutral mesons in a very wide p_T 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, the Inner Tracking System and the Time Projection Chamber. In this poster, the results of neutral meson spectra obtained with PCM will be presented.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

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