

Measurement of inclusive neutral pion yields in in p+p and Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ALICE EMCal

We present the measurement of inclusive differential π^0 yields in p+p and centrality-selected Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, using the large-acceptance ALICE Electromagnetic Calorimeter (EMCal). The recently completed EMCal enhances ALICE capabilities for the study of jets, neutral mesons, electrons, and direct photons. The EMCal acceptance (110 degrees in azimuth, $|\eta| < 0.7$) and high granularity enable the reconstruction of neutral mesons over a wide transverse momentum range, employing invariant mass, shower-shape, and conversion techniques. We present first measurement of $\pi^0 R_{AA}$ for both peripheral and central Pb+Pb collisions, normalized by the π^0 yield measured in p+p collisions at $\sqrt{s_{NN}} = 2.76$ TeV.

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