

Suppression of neutral pion production at large transverse momentum measured with the ALICE experiment in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV

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The ALICE experiment at the LHC has measured the transverse momentum spectra of neutral mesons via the two photon decay in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV over a wide transverse momentum range with different subsystems: with the electromagnetic calorimeters PHOS and EMCAL and via conversions of the photons in the inner material of the experiment to e+e-pairs reconstructed with the Central Tracking System.

In this talk, the production of neutral pions in pp and Pb-Pb collisions is compared in terms of the so called nuclear modification factor, R_{AA} , for different centrality selections of the Pb-Pb data sample.

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