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Neutral Pion production in PbPb collisions at sqrt(s_NN)=2.76 TeV measured by ALICE via photon conversions

The neutral pion yield is measured with ALICE by reconstructing photons via their conversion into e+e- pairs. Transverse momentum spectra are presented for pp and PbPb collisions as well as the resulting nuclear modification factor R_AA. The pi0 yield is studied as a function of the emission angle w.r.t. the reaction plane. At high transverse momentum this provides insights into the path-length dependence of jet-quenching. In addition, the reaction plane dependence of the nuclear modification factor R_AA is presented.

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Track Classification: Jets