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Charged particle production in Pb-Pb collisions in ALICE

Friday, 7 December 2012 16:00 (30 minutes)

Global event observables are a fundamental tool to characterize the properties of the strongly interacting medium created in heavy-ion collisions at the LHC. The ALICE experiment measured charged particle multiplicity distributions in Pb-Pb collisions at radic;s_{NN} = 2.76 TeV in a wide pseudo-rapidity range (-5<&eta < 5.5) using different techniques. In heavy-ion interactions the centrality of the collision is estimated through a Glauber Monte Carlo fit to multiplicity distributions reconstructed in various detectors. The charged particle yields as a function of particle transverse momentum in Pb-Pb relative to pp collisions are measured to study in-medium energy loss. Charged particle pseudo-rapidity distributions and the nuclear modification factor R_{AA} will be presented for Pb-Pb collisions at radic;s_{NN} = 2.76 TeV. The results will be compared to experimental results at lower energies and to theoretical predictions.

Presentation Type

talk

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