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Measurements of charged hadron spectra and nuclear modification factors in lead-lead and proton-lead collisions with the ATLAS detector

Measurements of the nuclear modification factor for charged hadrons is an indirect way to understand the jet energy loss mechanism. Charged hadron spectra were measured in Pb+Pb, p+Pb and pp collisions at sqrt(s), sqrt(s_NN)=5.02 TeV. The higher statistical significance of the Pb+Pb data sample with the total integrated luminosity of 0.49nbˆ-1, p+Pb sample of 25nbˆ-1 and pp sample of 25pbˆ-1 allows high precision measurements of the charged hadron spectra and of the nuclear modification factors. The results are presented in wide transverse momentum ranges and investigated in different centrality and rapidity intervals.

Preferred Track

Jets and High pT Hadrons

Collaboration

ATLAS

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