



Contribution ID: 510

Type: Poster

Jet measurements in proton-proton collisions at $\sqrt{s} = 7$ TeV with ALICE experiment

Thursday, August 16, 2012 4:00 PM (2 hours)

Collimated sprays of particles associated with hard partons, jets, are an important tool in testing QCD and probing the hot and dense nuclear matter created in high energy heavy-ion collisions. Jets enable to study hard scattering, fragmentation and hadronisation and their modification in presence of a partonic medium with respect to baseline vacuum measurements with proton-proton collisions.

We have analysed data from proton-proton collisions at $\sqrt{s} = 7$ TeV measured by ALICE and reconstructed the inclusive spectra of charged particle jets at mid-rapidity using k_t and anti- k_t clustering algorithms. We will present the jet spectra corrected for detector effects using unfolding and the unfolding procedure will be discussed in detail. We will examine various properties of jets, such as their charged particle multiplicity or jet shapes, with comparison to theoretical predictions.

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Session Classification: Poster Session Reception

Track Classification: Jets