Contribution ID: **70** Type: **not specified**

Measurements of charged jet production and modification in ALICE

Thursday, 20 December 2018 15:15 (15 minutes)

A jet is a spray of collimated hadrons originated in the fragmentation of an energetic parton. The cross section measurement provides a good test for pQCD calculations, and jet production in pp collisions constitutes a reference for jet quenching study in nucleus-nucleus collisions. In addition, the measurements in different multiplicity intervals will provide insights to understand the properties of small interacting system.

In this communication, we will present charged jet cross section measurement
in pp collisions at 13 TeV with high statistics collected by ALICE. The jet cross section ratio for various jet resolution parameters will be also shown. Such kind of cross section ratio is an indirect measurement of the jet shape. In particular, we will present the charged particle jet production in different multiplicity intervals, which will provide important input for understanding the correlations between the hard process and event activity in small system.

Type

Parallel talk

Sessions (parallel only)

Heavy Ions

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Session Classification: Heavy Ion Physics

Track Classification: Heavy Ions