

Multiplicity dependent charged jet production in pp collisions at 13 TeV with ALICE

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 report, we will present charged jet cross section measurement in pp collisions at 13 TeV with high statistics collected by ALICE. We will show the jet cross section ratio for various jet resolution parameters. Such kind of cross section ratio is an indirect measurement to jet shape. The charged particle jet production in different multiplicity intervals will be also studied in pp collisions in order to understand the small systems.

Summary

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