

11th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Beitrag ID: 34

Typ: Poster

Multiplicity dependence of charged-particle jet properties in pp and p-Pb collisions with ALICE

Dienstag, 28. März 2023 18:15 (2 Stunden)

Measurements of jet properties in small systems provide insights into perturbative and non-perturbative QCD aspects of jet structure and cold nuclear matter effects. Additionally, recent studies of high-multiplicity final states in small collision systems exhibit signatures of collective effects that are conventionally associated with the formation of hot and dense, color-deconfined QCD matter. However, no evidence of jet quenching has been observed within present accuracy in small collision systems. In this talk we will present recent ALICE measurements of intra-jet properties in pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s} = 5.02$ TeV: mean charged-constituent multiplicity, transverse momentum profile, and fragmentation distributions. These jet properties are compared between high-multiplicity and minimum-bias events in small collision systems. In addition, we will compare these results with various Monte Carlo generators.

Experiment/Theory

ALICE

Affiliation

CERN

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Sitzung Einordnung: Poster Session

Track Klassifizierung: Jets and their modification in QCD matter