

Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



Contribution ID: 545

Type: **Poster Presentation**

Dijet invariant mass in pp and p-Pb collisions with ALICE

Monday 4 November 2019 17:40 (20 minutes)

Oskari Saarimäki for the ALICE collaboration

We present the dijet invariant mass distribution in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by ALICE. We study the dependence of the dijet invariant mass on event multiplicity in both collision systems, to explore cold nuclear matter effects or possible medium modifications in small collision systems. We measure charged jets using central tracking detectors in ALICE and correct the results for detector effects using unfolding procedure. Previous two-particle correlation studies from RHIC and the dijet asymmetry studies from LHC indicate that the dijet invariant mass can be sensitive to modifications caused by the QGP medium.

Author: SAARIMAKI, Oskari Antti Matti (Helsinki Institute of Physics (FI))

Presenter: SAARIMAKI, Oskari Antti Matti (Helsinki Institute of Physics (FI))

Session Classification: Poster Session

Track Classification: Jet modifications and medium response