



Contribution ID: 131

Type: Talk

Multiplicity dependence of intra-jet properties in pp collisions at $\sqrt{s} = 13$ TeV with ALICE

Monday 12 December 2022 16:15 (15 minutes)

Recent results in high-multiplicity pp collisions show features similar to those that are associated with the formation of a quark-gluon plasma in heavy-ion collisions [1]. Investigating the modification of the intra-jet properties as a function of event multiplicity in pp collisions can provide deeper insight into the nature of these effects. We will present the recent measurements of multiplicity dependence of charged-particle jet properties (average charged particle multiplicity and fragmentation functions) for leading charged-particle jets. Jets are reconstructed using anti- k_T jet finding algorithm with radius parameter $R = 0.4$ in the jet p_T range from 5 - 110 GeV/c at midrapidity in pp collisions at $\sqrt{s} = 13$ TeV with ALICE.

[1] Vardan Khachatryan et al. Phys. Lett. B 765 (2017), JHEP 09 (2010)

Session

Heavy Ions and QCD

Primary author: BANERJEE, Debjani (Bose Institute (IN))

Presenter: BANERJEE, Debjani (Bose Institute (IN))

Session Classification: WG5-Heavy Ions and QCD