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Measurement of the transverse momentum(j_T) distributions of charged-particle jet fragments in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE

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Jet fragmentation allows us to explore the evolution process of the QCD jets. It can be studied using the transverse momentum (j_T) and longitudinal momentum fraction (z) of constituent particles. The j_T distributions of jet fragments have been measured in pp and p–Pb collisions at \sqrt{s} , $\sqrt{s_{NN}} = 5.02$ TeV with ALICE, and various parton-shower models reasonably describe the pp results. In this analysis, we extend the analysis to more detailed measurements of j_T distributions for charged-particle jets in pp collisions, in several z ranges. The z -dependent j_T distributions will be compared with the theoretical predictions to test our current understanding of jet fragmentation and hadronisation.

Experiment/Theory

ALICE

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