

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



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Typ: Poster

## 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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**Sitzung Einordnung:** Poster Session

**Track Klassifizierung:** Jets and their modification in QCD matter