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Resonance production in-and-out of jets in pp collisions @ 13.6 TeV with ALICE

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Recent experimental results on two-particle correlations within jets highlight a strong correlation at extremely large charged-particle jets multiplicities. This has hypothesized the idea of a formation of a hot and dense QCD medium within high-multiplicity jets in pp collisions. This observation suggests a novel aspect of particle interaction dynamics in pp collisions, previously thought to be exclusive to heavy-ion collisions. One notable characteristic of such medium formation is the altered production ratio among different types of particles. This study aims to delve into this phenomenon by analyzing the yields of K and ϕ mesons within high-multiplicity jets in pp collisions LHC Run 3 data at $\sqrt{s} = 13.6$ TeV, obtained with ALICE. The analysis utilizes charged jets and the per-trigger yields of K and ϕ are investigated in-and-out of such jets. The focus on these specific particles is expected to provide valuable insights into the intricate dynamics of QCD medium creation and its influence on particle production patterns.

Auteur principal: LEE, Jimun (ALICE)

Orateur: LEE, Jimun (ALICE)

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