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Measurement of leading charged-particle jet properties in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

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The hard scattered (high p_T) partons produced in high energy hadronic and nuclear collisions fragment into a collimated spray of final state particles, known as jets. Jet properties are sensitive to details of parton showering processes and are expected to be modified in the presence of a dense partonic medium. Measurement of intra-jet properties in p-Pb collisions will help to investigate cold nuclear matter effects and enrich our current understanding of particle production in such collision systems. In this work, we will present the measurement of charged-particle jet properties, the mean charged-constituent multiplicity and fragmentation functions for leading jets in the range of jet p_T from 10 - 100 GeV/c at midrapidity in p-Pb collisions at 5.02 TeV with ALICE. Results will be compared with Monte Carlo predictions.

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