

Inclusive jet production in p+Pb collisions at 5.02 TeV with the ATLAS detector at the LHC jet quenching

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Measurements of reconstructed jets in high-energy proton-lead collisions over a wide rapidity and pT range can shed light on the partonic structure of nuclei. Inclusive jet production is sensitive to the nuclear modification of parton distribution functions and, in the forward direction and at small transverse momenta, can provide constraints on the saturation of low Bjorken-x partons in the high-density Pb nucleus. Furthermore, any modification of jet production in p+Pb collisions requires that the strong suppression seen in central Pb+Pb collisions be understood in the light of these nuclear effects. We present the latest results on inclusive jet production in p+Pb collisions at 5.02 TeV measured in the new high statistics 2013 data with the ATLAS detector at the LHC.

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