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Measurement of Nuclear Modification of Jet Production in p-Pb collisions at $s_{\text{NN}} = 5.02$ TeV with the ALICE detector at the LHC

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Proton-nucleus collisions are utilized to distinguish between initial and final state effects, which is vital for establishing a baseline for heavy-ion collisions. One of the crucial reference measurements is the jet nuclear modification factor (R_{pPb}) in p-Pb collisions at $s_{\text{NN}} = 5.02$ TeV at the LHC. Jets in ALICE are reconstructed using the anti- k_T jet finding algorithm combining information from the Time Projection Chamber (TPC), Inner Tracking System, and the Electromagnetic Calorimeter (EMCal) to measure the charged and neutral jet constituents. In this talk, we discuss the systematic uncertainties on the jet energy scale using the TPC and EMCal in ALICE. Furthermore various techniques to estimate the underlying event in p-Pb collisions will be presented. Simulation studies will also be presented.

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