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Light-flavour hadron production in p-Pb collisions measured with the ALICE detector at the LHC

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The LHC has recently provided p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV which play a fundamental role in the understanding of cold nuclear matter effects in heavy ion collisions, providing essential information to discriminate between initial and final state effects.

Results from two-particle correlation measurements have revealed an unexpected double ridge structure in these collisions, which could be interpreted either as a sign of collective flow or as an initial state effect related to saturation phenomena. In this talk we present results on identified particles as a function of multiplicity, to investigate possible indications of radial flow.

Charged and weakly decaying neutral particles are reconstructed in the ALICE central barrel over a wide momentum range and identified by employing different sub-systems and techniques. Transverse momentum spectra of primary charged particles and identified light flavoured hadrons have been measured. The yields, average p_T , and particle ratios are reported as a function of multiplicity, and compared to other collision systems and theoretical models.

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