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Two-particle correlations in p-Pb collisions at the LHC with ALICE

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The double ridge structure previously observed in Pb-Pb collisions has also been recently observed in high-multiplicity p-Pb collisions at \sqrt{s_{NN}} = 5.02 TeV. These systems show a long-range structure (large separation in $\Delta\eta$) at the near- ($\Delta\phi = 0$) and away-side ($\Delta\phi = \pi$) of the trigger particle. In order to understand the nature of this effect the two-particle correlation analysis has been extended to identified particles. Particles are identified up to pT values of 4GeV/c using the energy loss signal in the Time Projection Chamber detector, complemented with the information from the Time of Flight detector. This measurement casts a new light on the potential collective (i.e. hydrodynamic) behavior of particle production in p-Pb collisions.

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