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Measurement of long-range correlations and $v_2(\eta)$ in pp and p–Pb collisions with ALICE

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Measurements of long-range correlations are one of the important tools for evaluation of the interplay between the initial- and final-state effects. Recently, non-vanishing second Fourier harmonic v_2 has been observed in small collision systems such as pp and p–Pb collisions. In this contribution, we present measurements of v_2 extracted from long-range two-particle correlations for different charged particles multiplicities in pp at $\sqrt{s} = 13$ TeV and in p–Pb collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV.These measurements utilize the Forward Multiplicity Detector, which allows for unprecedented pseudorapidity ($\Delta\eta$) ranges to be explored (up to $\Delta\eta \sim 8$). We show the result of the η dependence of v_2 over a wide pseudorapidity range ($-3.1 < \eta < 4.8$). Results are compared with the AMPT and hydrodynamical calculations.

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