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Two-particle long-range correlations in small systems with ALICE

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In this talk, we will present the recent results on two-particle correlations in high-multiplicity pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV from the ALICE Collaboration. The origin of long-range modulations remains an open question, and can be indicating collective dynamics in both small and large systems. We will present recent measurements of the second Fourier harmonic v_2 as a function of multiplicity in pp collisions using the Forward Multiplicity Detector, which makes it possible to measure the correlations between particles which are separated by up to eight units of pseudorapidity, the largest $\Delta\eta$ gap at the LHC. We will also present a differential study of the ridge in high-multiplicity pp collisions which contain a high-momentum charged particle or reconstructed jet, in order to determine whether long-range correlations are correlated with hard processes. Finally, we will discuss a flow extraction method using a low-multiplicity template, and present the non-flow free flow harmonic coefficients.

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