

Di-hadron correlations in pp collisions at $\sqrt{s} = 13$ TeV within $|\Delta\eta| \leq 8.4$

Di-hadron correlations in relative azimuthal angle and over large pseudorapidity separations ($\Delta\eta$) recently revealed evidence for collectivity in the small collision systems of pp and p-Pb.

In this analysis we investigate the correlations between tracks in the Inner Tracking System and energy deposition in the Forward Multiplicity Detector (FMD) ($1.7 < \eta < 5$, $-3.4 < \eta < -1.7$).

This makes it possible to measure di-hadron correlations over the range of $|\Delta\eta| \leq 8.4$ significantly improving on previously published results.

However, the FMD, which only measures clusters and not tracks, is significantly affected by secondary particles produced by other particles interacting with detector material.

A new correction procedure is developed to extract anisotropic flow coefficients in the presence of large numbers of such secondary particles.

Preferred Track

Correlations and Fluctuations

Collaboration

ALICE

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