

Correlations and flow measurements in PbPb and pPb collisions with CMS

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An overview of measurements of collective flow and dihadron correlations from the CMS experiment will be presented. In PbPb collisions, the Fourier components of the anisotropic azimuthal distribution, ranging from the second to the sixth component, are obtained using different analysis techniques, which have different sensitivities to non-flow and flow fluctuation effects. Dihadron correlations are measured over a wide acceptance and transverse momentum range. Long-range near-side ("ridge") correlation structures and short-range jet-like correlations are systematically studied as a function of pT, pseudorapidity, centrality. These measurements are compared to similar studies performed in pPb collisions and the evolution of the observed correlations with system size and multiplicity of the produced particles is discussed.