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Collective flow and charged hadron correlations in 2.76 TeV PbPb collisions at CMS

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We report on the CMS measurements of charged hadron anisotropic azimuthal distributions from PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. The results are presented as a function of transverse momentum, centrality and pseudorapidity and cover a broad kinematic range. Long range in pseudorapidity di-hadron azimuthal correlations are also studied and discussed in terms of the possible influence of the initial collision geometry. These results can provide constraints on the theoretical description of the early dynamics in the hot and dense medium created at the LHC and the transport properties through this medium.

Primary author: Dr PADULA, Sandra (UNESP - Universidade Estadual Paulista (BR))

Presenter: Dr PADULA, Sandra (UNESP - Universidade Estadual Paulista (BR))

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