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Measurement of charged hadron v_2 at high pT in PbPb collisions at sqrt(s)=2.76TeV with CMS

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Measurements of the azimuthal anisotropy of charged hadrons are presented for PbPb collisions at sqrt(s_NN) = 2.76 TeV over an extended transverse momentum range. The data were collected with the CMS detector at the LHC. The anisotropy parameter (v_2) is extracted up to a significantly higher pT region than previous achieved, by correlating charged tracks with respect to the event plane reconstructed using the energy deposited in forward-angle calorimeters. Dihadron angular correlations over wide pseudorapidity gap are also presented for the very high-pt particles. These new data can impose quantitative constraints on the details of in-medium parton energy loss models, particularly the influence of the path length and the shape of the interaction region.

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