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Higher Harmonic Anisotropic Flow Measurements of Charged Particles in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV

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ABSTRACT

We report on the first measurement of the triangular v_3 , quadrangular v_4 , and pentagonal v_5 charged particle flow in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV measured with the ALICE detector at the CERN Large Hadron Collider. We show that the triangular flow can be described in terms of the initial spatial anisotropy and its fluctuations, which provides strong constraints on its origin. In the most

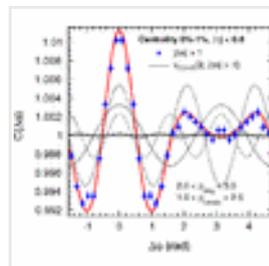
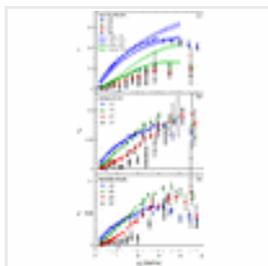
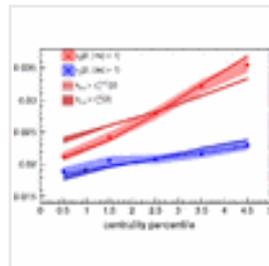
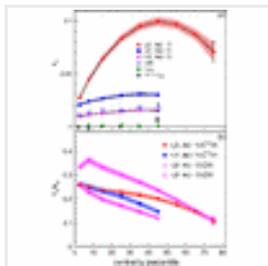
central events, where the elliptic flow v_2 and v_3 have similar magnitude, a double peaked structure in the two-particle azimuthal correlations is observed, which is

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interpreted as a Mach cone response to fast partons. We show that this

from the measured anisotropic flow Fourier

coefficients.



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