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Pseudorapidity dependence of the anisotropic flow with ALICE at the LHC

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The anisotropic flow at forward rapidity provides information on the longitudinal expansion of the system produced in a heavy-ion collision. We report on the pseudo-rapidity dependence of the charged particle anisotropic flow in Pb-Pb collisions at 2.76 TeV. The measurement is done over a wide range of pseudo-rapidity, $|\eta| < 5.1$ using the forward detectors of ALICE at the LHC. Results are obtained from two- and multi-particle correlation techniques with the latter being less sensitive to non-flow effects. The longitudinal scaling of the anisotropic flow at the LHC and the comparison with RHIC measurements and hydrodynamical model calculations at forward rapidity will be discussed.

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