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Directed flow measurement in Pb-Pb collisions with ALICE at the LHC

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Directed flow, v_1 , is measured over a wide range of pseudo-rapidity, $|\eta| < 5.1$, in Pb-Pb collisions at 2.76 TeV with ALICE at the LHC.

The results of v_1 are reported as a function of the pseudo-rapidity and the transverse momentum for different collision centrality classes.

Using the neutral spectator deflection at beam rapidity we investigate both the rapidity asymmetric v_1 which is sensitive to the collision reaction plane, together with the rapidity symmetric v_1 which is sensitive to the energy fluctuations in the initial geometry.

Results are compared to RHIC measurements.

Possible effects of the energy fluctuations in the longitudinal (along the collision axis) direction on the directed flow are discussed.

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