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Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV

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Abstract

The prompt D-0 meson azimuthal anisotropy coefficients, $v(2)$ and $v(3)$, are measured at midrapidity ($|y| < 1.0$) in Pb-Pb collisions at a center-of-mass energy $\sqrt{s(NN)} = 5.02$ TeV per nucleon pair with data collected by the CMS experiment. The measurement is performed in the transverse momentum ($p(T)$) range of 1 to 40 GeV/c, for central and midcentral collisions. The $v(2)$ coefficient is found to be positive throughout the $p(T)$ range studied. The first measurement of the prompt D-0 meson $v(3)$ coefficient is performed, and values up to 0.07 are observed for $p(T)$ around 4 GeV/c. Compared to measurements of charged particles, a similar $p(T)$ dependence, but smaller magnitude for $p(T) < 6$ GeV/c, is found for prompt D-0 meson $v(2)$ and $v(3)$ coefficients. The results are consistent with the presence of collective motion of charm quarks at low $p(r)$ and a path length dependence of charm quark energy loss at high $p(r)$, thereby providing new constraints on the theoretical description of the interactions between charm quarks and the quark-gluon plasma.

Keywords

KeyWords Plus: RELATIVISTIC NUCLEAR COLLISIONS; LARGE HADRON COLLIDER; HEAVY-ION COLLISIONS; QUARK-GLUON PLASMA; ELLIPTIC FLOW; FLAVOR; COLLABORATION; PERSPECTIVE; LHC

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