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Measurement of charmonia azimuthal anisotropy in PbPb collisions at 5.02 TeV with the CMS experiment

In this presentation, we will show the second-order(v_2) and the third-order(v_3) Fourier coefficients of charmonia measured in PbPb collisions at 5.02 TeV with CMS experiment. The understanding of the in-medium effect of quarkonia in heavy ion collisions requires observation of various physical objects. The coefficients describing the azimuthal anisotropy were measured for prompt and nonprompt J/ψ and $\psi(2S)$ mesons to study interaction between quarkonia and quark-gluon plasma (QGP). The measurement was performed by using the scalar product method, and discussed in terms of suppression and recombination effects.

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