

# Investigation of azimuthal anisotropy of charmonium with the CMS experiment

*Tuesday 25 April 2023 18:00 (20 minutes)*

The quark-gluon plasma(QGP) is considered the state of the early universe. The azimuthal anisotropy for charmonium states has been researched as one of the probes to understand the nature of the QGP. In this presentation, we will report recent progress regarding the study of the elliptic and triangular flow for prompt and nonprompt  $J/\psi$  and prompt  $\psi(2S)$  states in lead-lead collisions at the center-mass-energy per nucleon  $\sqrt{s_{NN}} = 5.02$  TeV with the CMS detector in 2018.

## Theory / experiment

Experiment

## Group or collaboration name

CMS

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**Session Classification:** Poster Session

**Track Classification:** Heavy quarks and quarkonia