

# 11th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Beitrag ID: 153

Typ: Talk

## New approach of charmonium medium response using elliptic and triangular flow of $J/\psi$ and $\psi(2S)$ with CMS

*Dienstag, 28. März 2023 11:50 (20 Minuten)*

The second- and third-order Fourier coefficients of charmonium states are measured in PbPb collisions with CMS. With this new analysis, extending to a higher  $p_T$  region, we investigate further the high- $p_T$   $J/\psi$   $v_2$  in heavy ion collisions. The nonprompt  $J/\psi$   $v_2$  probes the different behavior of charm and bottom quarks induced by interactions with the QGP medium. The  $v_3$  flow coefficient values, for the separated prompt and nonprompt  $J/\psi$  as well as the prompt  $\psi(2S)$ , are reported for the first time.

### Experiment/Theory

CMS

### Affiliation

CMS

**Hauptautor:** OH, Geonhee (University of Illinois at Chicago)

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**Sitzung Einordnung:** Parallel: Heavy Flavours & Quarkonia

**Track Klassifizierung:** Heavy flavor and quarkonia