

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



Beitrag ID: 154

Typ: Talk

## Measurement of heavy quarkonia elliptic flow in pPb collisions with the CMS detector

*Dienstag, 28. März 2023 11:30 (20 Minuten)*

The second-order Fourier coefficients ( $v_2$ ) of  $\Upsilon(1S)$  and  $J/\psi$  mesons in high-multiplicity pPb collisions is studied using data collected by the CMS experiment at a nucleon-nucleon center-of-mass energy 8.16 TeV. The dimuons used to reconstruct the heavy quarkonium states are correlated with charged hadrons using long-range two-particle correlation techniques. The measurement of the  $\Upsilon(1S)$   $v_2$  is reported for the first time in small collision systems. The results are discussed in the context of collectivity and modification of heavy quark dynamics.

### Experiment/Theory

CMS

### Affiliation

CMS

**Hauptautor:** LEE, Kiso (Korea University (KR))

**Vortragende(r):** LEE, Kiso (Korea University (KR))

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

**Track Klassifizierung:** Heavy flavor and quarkonia