



Contribution ID: 36

Type: **Talk**

## Measurement of quarkonium elliptic flow in pPb collisions at 8.16 TeV with the CMS detector

*Tuesday 14 June 2022 09:00 (20 minutes)*

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 quarkonium states are coupled with charged hadrons using the long-range two-particle correlation technique. The measurement of the  $\Upsilon(1S)$   $v_2$  is reported for the first time in small collision systems. The results are discussed in terms of collectivity and modification of heavy quarks.

### Present via

Offline

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

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

**Session Classification:** PA-Bulk matter phenomena, QCD phase diagram, and Critical point

**Track Classification:** Bulk matter phenomena, QCD phase diagram, and Critical point