

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



Beitrag ID: 152

Typ: Talk

## Detailed study of the nuclear modification of $\Upsilon$ states in pPb and PbPb collisions with CMS

*Dienstag, 28. März 2023 15:40 (20 Minuten)*

Bottomonia, the heaviest known mesons, represent major probes of strongly interacting matter properties. In the context of nuclear collisions, the binding energies separating the  $\Upsilon(nS)$  states ( $n=1, 2$ , or  $3$ ) offer an experimental handle to characterize the medium formed. In this talk, we study the modification of the production of the three  $\Upsilon$  mesons in both pPb and PbPb collisions with the latest measurements carried out with the CMS detector. The results are compared with model calculations in order to interpret the data.

### Experiment/Theory

CMS

### Affiliation

CMS

**Hauptautor:** PARK, JaeBeom

**Vortragende(r):** PARK, JaeBeom

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

**Track Klassifizierung:** Heavy flavor and quarkonia