

ICHEP2012



Contribution ID: 637

Type: **Parallel Sessions**

## Quarkonia production in 2.76 TeV PbPb collisions in CMS

*Friday, 6 July 2012 10:00 (15 minutes)*

The Compact Muon Solenoid (CMS) is fully equipped to measure hard probes in the di-muon decay channel in the high multiplicity environment of nucleus-nucleus collisions. Such probes are especially relevant for studying the quark-gluon plasma since they are produced at early times and propagate through the medium, mapping its evolution. CMS has measured the nuclear modification factors of non-prompt J/psi (from b-hadron decays), prompt J/psi, and Y(1S) in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. Suppression of the excited Y-states is also studied in comparison to the Y(1S) state.

**Primary author:** Dr VIEGAS GUERREIRO LEONARDO, Nuno (Purdue University (US))

**Presenter:** Dr VIEGAS GUERREIRO LEONARDO, Nuno (Purdue University (US))

**Session Classification:** Room 217 - Heavy Ion Collisions / B-Physics / CP Violation - TR5/7/9

**Track Classification:** Track 9. Heavy Ion Collisions