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Quarkonia production in 2.76 TeV PbPb collisions in CMS

Friday, July 6, 2012 10:00 AM (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.

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