

Bottomonium production measured in PbPb and pp collisions by CMS

Monday 23 May 2011 19:10 (20 minutes)

The LHC centre-of-mass energy allows copious Υ production in PbPb collisions. Detailed measurements of bottomonium will help characterize the dense matter produced in heavy-ion collisions beyond what was accessible at RHIC (mostly) with charmonia. The full spectroscopy of quarkonium states has been suggested as a possible thermometer for the QGP. With its excellent dimuon mass resolution, CMS has measured the three Υ states in pp collisions. With the 2010 PbPb data sample, CMS has observed the Υ . The $\Upsilon(1S)$ cross-section is presented as a function of transverse momentum, rapidity and centrality.

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Session Classification: Heavy flavor

Track Classification: Heavy flavor and quarkonia production