

## **Bottomonium production measured in PbPb and pp collisions by CMS**

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The LHC centre-of-mass energy allows copious  $\Upsilon$  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  $\Upsilon$  states in pp collisions. With the 2010 PbPb data sample, CMS has observed the  $\Upsilon$ . The  $\Upsilon(1S)$  cross-section is presented as a function of transverse momentum, rapidity and centrality.

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