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Measurements of Bottomonium production in pp, pPb and PbPb collisions at $\sqrt{s} = 5.02$ TeV

Bottomonia are important probes of the quark-gluon plasma since they are produced at early times and propagate through the medium. The production cross sections of the three Y states (1S, 2S, 3S) were measured by CMS in pp, pPb and PbPb collisions at 5.02 TeV. A strong suppression is observed in PbPb collisions but the Y(3S) was not observed clearly in PbPb collisions. This suppression was seen to depend on centrality, but not significantly on transverse momentum or rapidity. The nuclear modification factor in pPb collisions is also measured to quantify nuclear effects in such a small system.

Summary

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