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Probing of initial and final state effects using Y mesons in pp, pPb, and PbPb collisions with the CMS detector

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Bottomonia have played a key role to understand the dynamics in high-energy heavy-ion collisions. In PbPb collisions, the modification of bottomonium production provides a crucial input for thermal property of the hot QCD medium. On the other hand, in smaller collision systems, it also contains intensive interest subjects such as Cold Nuclear Matter (CNM) effects. In this talk, we report the recent results of elliptic flow measurements in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. In addition, we present the final results of the nuclear modification factors in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Finally we also report the event activity dependence of Y states in pp collisions at 7 TeV.

Collaboration

CMS

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