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## Upsilon production cross section in pp collisions at $\sqrt{s} = 7$ TeV

### Content :

We present the Upsilon production cross section in proton-proton collisions at 7 TeV, as measured by the CMS experiment using the dimuon decay channel. More specifically, we present the Upsilon 1S, 2S and 3S differential cross sections, as a function of transverse momentum up to 30 GeV/c, and the corresponding cross-section ratios. The results are compared to several theory calculations. We end the talk with perspectives regarding the measurement of Upsilon production in Pb-Pb collisions, to be made by CMS during the LHC heavy-ion runs.

### Collaboration :

CMS

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