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Measurement of J/psi, Upsilon and b-hadron production in proton-proton collisions at sqrt(s) = 7 TeV with the CMS experiment

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We present the first measurements of the J/ψ and Y production cross sections in proton-proton collisions at 7 TeV, as measured by the CMS experiment using the dimuon decay channel. For the J/ψ we give the inclusive and the prompt differential cross sections, versus transverse momentum, as well as the beauty fraction, statistically separating the two contributions through a fit to the lifetime distribution, using the distance between the dimuon vertex and the interaction point. For the Y, we present the 1S cross section and the (2S+3S)/1S cross-section ratio, both versus transverse momentum.

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