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Measurement of J/psi, Upsilon and b-hadron production in proton-proton collisions at $\sqrt{s} = 7$ TeV

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Measurements of the J/psi and Upsilon production cross sections in proton-proton collisions at 7 TeV by the CMS experiment are presented. The dimuon decay channel is used for both analyses. For the J/psi, inclusive and prompt differential cross sections versus transverse momentum are presented, 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 Upsilon, the 1S cross section and the (2S+3S)/1S cross-section ratio are presented, both versus transverse momentum.

Primary author: COVARELLI, Roberto (CERN)

Presenter: COVARELLI, Roberto (CERN)

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