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Measurements of quarkonia production and polarization with the CMS experiment (15' + 5')

Thursday 9 June 2011 15:55 (20 minutes)

This talk presents the J/ψ and $\psi(2S)$ differential cross sections and J/ψ spin alignment in pp collisions at 7 TeV, as a function of transverse momentum and in several rapidity ranges, on the basis of the 2010 data collected by CMS. The B to J/ψ and B to $\psi(2S)$ fractions will also be presented, and compared to other measurements as well as to theory calculations. We also report the measurement of the $Y(1S)$, $Y(2S)$, and $Y(3S)$ differential cross sections as a function of transverse momentum and rapidity. Finally, a measurement of the ratio of the production cross sections for $X(3872)$ and $\psi(2S)$ is presented.

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