## PLHC2011 - Physics at LHC 2011



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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/psi and psi(2S) differential cross sections and J/psi 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/psi 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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