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CMS results on Quarkonium production

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Using large data samples of di-muon events, CMS has performed detailed measurements in the field of quarkonium production. Differential cross-sections of (prompt) J/ψ , $\psi(2S)$ and $Y(nS)$ states in p_T and rapidity will be presented, as well as studies of P-wave charmonia (χ_c), using the decay mode $J/\psi + \gamma$ where the photon converts in an e^+e^- pair inside the detector. All our measurements will be compared to several theoretical predictions, including NLO nonrelativistic QCD.

We, will in particular, present for the first time results on double- J/ψ production, as well very recent results on two exotic quarkonium states.

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