Type: Oral presentation

## Quarkonium production in pp collisions with CMS

Tuesday, 29 May 2012 14:15 (20 minutes)

Using large data samples of di-muon events, CMS has performed detailed measurements in the field of quarkonium production. Differential cross-sections of J/psi, psi(2S) and Y(nS) states in pT and rapidity will be presented, separated in prompt and non-prompt contributions for the charmonium case: experimental results are compared with recent predictions in the context of NLO nonrelativistic QCD and the FONLL scheme. Studies of P-wave charmonia and bottomonia (chi\_c, chi\_b), using the decay mode (J/psi, Y) + gamma where the photon converts in an e+e- pair inside the detector, will be also discussed.

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Session Classification: Parallel IIIA: Heavy flavour