

Charmonia and bottom production measurements with J/psi events at LHCb

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We report on the possibilities of measuring charmonia and bottom production with the LHCb experiment. Using reconstructed J/psi decays to $\mu^+ \mu^-$, both the prompt J/psi and $b \rightarrow J/\psi$ production cross-sections in pp collisions at LHC energies will be determined in the J/psi eta range 2-5. Due to the very large statistics, this analysis will be possible very early after the LHC start. Other charmonia related measurements will also be discussed, such as that of the J/psi polarization at production or of the production of some of the new X, Y and Z states.

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