

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

We report on the possibilities of measuring charmonia and bottom production with the LHCb experiment. Using reconstructed J/ψ decays to $\mu^+ \mu^-$, both the prompt J/ψ and $b \rightarrow J/\psi$ production cross-sections in pp collisions at LHC energies will be determined in the J/ψ 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/ψ polarization at production or of the production of some of the new X, Y and Z states.

Primary author: EGORYCHEV, Victor (ITEP)

Presenter: SABATINO, Giovanni (INFN-LNF)

Track Classification: Poster session