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Studies of quarkonia production and polarisation at LHCb

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Studies of quarkonia production in the forward region provide important tests of NRQCD. The LHCb experiment has collected a dataset corresponding to an integrated luminosity of about 3 fb⁻¹ in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. We present studies of the production and polarisation of the J/ψ , $\psi(2S)$ and χ_c charmonium states as well as those of Upsilon and χ_b bottomonia. Absolute and relative production cross-sections are presented and compared to the most recent theoretical predictions when available.

We also discuss the future prospects for these measurements.

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