

Studies on B hadron production, spectroscopy and decays at CMS

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We review several recent results of the CMS experiment in the field of B hadron productions, spectroscopy and decays. A measurement of the Λ_b lifetime using the decay $\Lambda_b \rightarrow J/\psi \Lambda$ is presented. The dataset was recorded with the CMS detector using a trigger selecting unbiased J/ψ decaying to dimuons. We performed a flavour-untagged measurement of the width difference $\Delta\Gamma_s$ in the $B_s \rightarrow J/\psi \phi$ decays. With an assumption of zero mixing phase, reconstructed B_s signal candidates are used to measure the polarization amplitudes in an angular and proper decay time analysis.

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