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Measurement of the inclusive b production cross section in pp collisions at $\sqrt{s} = 7$ TeV

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Cross section measurements of inclusive b production in proton-proton collisions at $\sqrt{s} = 7$ TeV by the CMS experiment are presented. The measurements are based on two different methods. The first method uses inclusive jets with secondary vertex tagging, while the second method selects a sample of events containing jets and at least one muon, where the transverse momentum of the muon with respect to the closest jet axis discriminates b events from the background. The data are compared with QCD Monte Carlo predictions at LO and NLO accuracy.

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