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

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Measurements by the CMS experiment of the cross section for inclusive  $b$  production in proton-proton collisions at  $\sqrt{s} = 7$  TeV are presented. The measurements are based on different methods, such as inclusive jet measurements with secondary vertex tagging or selecting 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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