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Measurement of the production cross sections of Z/γ^* bosons in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the CMS detector

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The mechanism of production of heavy-flavoured mesons, in association with vector bosons like $Z+b$ in the Standard Model, is only partially understood. The deep understanding of these processes is furthermore required by Higgs and BSM analysis with similar final states. Using the total 5.2 fb⁻¹ LHC proton-proton collision data collected in 2011 at a centre of mass energy of 7 TeV by the CMS detector, the final measurement of the $Z+b$ cross sections will be presented in this talk. $Z+b$ inclusive, $Z+1b$ exclusive and $Z+2b$ inclusive cross sections are determined for b hadron jets having $p_T > 25$ GeV and $|\eta| < 2.1$. The results are related to the following CMS document : Measurement of the production cross sections of Z/γ^* bosons in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the CMS detector, CMS PAS SMP-12-003.

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