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## Measurement of the $Z+b$ cross section at CMS

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Production of a Z boson in association with b jets is a background in multiple searches for physics beyond the Standard Model, as well as in different searches for the Higgs boson. Furthermore, the measurement of the  $Z+b$  cross section can be used to measure PDFs and to test the predictions from theory. In this talk the measurement of the  $Z+b$  cross-section, using a sample of  $2.1\text{fb}^{-1}$  of proton-proton collisions collected at a center-of-mass energy of 7 TeV at the CMS experiment, is presented, and compared with predictions from MC event generators.

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