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QCD physics measurements at the LHCb experiment

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LHCb is a spectrometer that covers the forward region of proton-proton collisions, corresponding to the pseudo-rapidity range $2 < \eta < 5$. In this unique phase space, LHCb can perform tests of perturbative and non-perturbative QCD models, by studying the production of heavy flavor quarks, like charm and top quarks. In this context the production of a Z boson in association with a c-jet can be studied to measure the intrinsic charm content of the proton. Moreover LHCb can test phenomenological models of soft QCD processes, by measuring the production of forward hadrons in pp collisions.

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