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Measurement of Inelastic cross-section and Central Exclusive Production with the LHCb detector

Thursday, 6 July 2017 09:30 (15 minutes)

The forward acceptance of LHCb, $2.0 < y < 5.0$, provides a complementary reach to the general purpose detectors on LHC. LHCb measurements of the inelastic cross-section and related results will be presented, as well as a comparison to Run 1 results.

The cross-section for central exclusive production of J/ψ and $\Psi(2S)$ mesons at 13 TeV is measured using the LHCb detector. Proton dissociative backgrounds are significantly reduced compared to previous measurements through the use of forward shower counters, recently installed for Run 2. Plans for future measurements are also presented to exploit the new Run2 dataset.

Experimental Collaboration

LHCb

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Session Classification: QCD and hadronic physics

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