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## **Predictions of Diffractive and Total Cross Sections at LHC Confirmed by Measurements**

*Tuesday, 29 April 2014 14:00 (30 minutes)*

Predictions of diffractive proton-proton cross sections at LHC, and of the total and total-inelastic proton-proton cross sections based on the RENORM unitarization model, also known as the MBR (minimum-bias-Rockefeller) model implemented in PYTHIA8-MBR, are confirmed by recent LHC measurements. Several other available diffraction models are discussed, highlighting differences among them and PYTHIA8-MBR regarding rapidity-gap and final-state distributions.

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