

ICNFP-2017 Abstract

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Title: Precision RENORM / MBR Diffraction Predictions Tested by Recent LHC Results

Abstract: Diffractive, elastic, and precision total pp cross-section predictions, based on the pre-LHC RENORM/MBR model, are compared to recent experimental results. Discrepancies among results by different experiments present a challenge to testing the model. Suggestions for analyses/measurements to understand and resolve the experimental discrepancies are discussed. The model predictions are extended to forthcoming measurements at higher LHC energies, planned supercolliders and cosmic rays.