

Goulianos_npQCD2018_Paris_Abstract

Diffraction results at LHC: solving a puzzle using precision RENORM predictions

Diffractive, elastic, and precision total pp cross-section RENORM model predictions are compared with recent experimental results at the LHC. Discrepancies among different results present a puzzle, and suggestions for analyses and/or new RENORM-inspired measurements to resolve it are presented. Possible Odderon contributions to elastic scattering and thereby to the discrepancies puzzle are discussed. The model predictions are extended to forthcoming measurements at higher LHC energies, planned supercolliders, and cosmic rays.