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Accounting for soft cross sections at the LHC

Friday, 14 September 2012 09:30 (20 minutes)

Summary

We show that the full GLM model with a tuned Pomeron intercept \alpha_{P} =0.23
provides a good description of all available pp and ¯pp data for \sigma_{tot}, \sigma_{el}, \sigma_{ sd},
\sigma_{dd} and B_{el}, over the energy range 20 <W < 7000 GeV.
We compare our results with experimental data and
other models on the market, with emphasis on recent LHC results.

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