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A model-independent method to extract B(t), rho(t) and the anomalous dimension of QCD from elastic pp scattering

We present a new, model independent method that describes the differential cross-section of elastic pp scattering at LHC energies in a statistically acceptable manner. The results allow for a model independent determination of the momentum-transfer dependence of the slope parameter B(t) and the rho parameter rho(t), as well as for a new, non-perturbative determination of the anomalous dimension of QCD.

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