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pp Elastic Scattering at LHC Energies

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Using a unified analytic representation for the elastic scattering amplitudes of pp scattering for all energies, the behavior of observables at the LHC energies in the range 2.76 - 14 TeV is discussed. Similarly to the case of 7 TeV data, the proposed amplitudes give excellent description of the preliminary data at 8 TeV. We discuss the energy dependence of the observables, with predictions for the experiments at 2.76, 13 and 14 TeV and investigate asymptotic properties of pp collisions.

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