

Energy evolution of the large- t elastic scattering and correlation with multiparticle production

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Summary

We discuss functional dependencies of the large- t elastic scattering and those energy evolution up to the LHC energies. Recent experimental data of the TOTEM experiment and their role in the discrimination of the possible scattering mechanisms are considered. Vanishing the helicity-flip amplitudes would result in the appearance of the oscillations at the large- t differential cross-section. This oscillating behavior would provide evidence for the s -channel helicity conservation in pp -collisions.

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