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Phenomenological status of Generalized Parton Distributions

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Only a consistent QCD framework for a unique description of Compton scattering and meson production in the deeply virtual regime allows to address generalized parton distributions in a universal manner. Such a framework allows also to bridge experimental measurements and results from lattice simulations on a quantitative level and it can be utilized to address the partonic decomposition of the nucleon spin and the three dimensional distribution of partons. In this talk the status of describing experimental data is reviewed, where the need of precision measurements is stressed, and an outlook of possible theoretical developments is given.

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