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Target mass and higher twist effects in polarized deep-inelastic scattering

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We perform a fit to all available experimental data of polarized structure functions in the framework of perturbative QCD, at next-to-leading order (NLO) approximation. We include target mass correction and higher twist effects on our fitting procedure and study their effects on physically interesting quantities. Nuclear polarized structure functions are described based on our fit result. Moreover, sum rules are derived and compared with available theoretical and experimental results.

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