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Exploring the 3-dimensional structure of the nucleon with QCD

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We address several unresolved issues in the QCD-based description of the three-dimensional inner structure of the nucleon accessible in the current and planned high-energy experiments. The emphasis is placed on the comparison of existing perturbative resummation methods and corresponding evolution equations (DGLAP, BFKL, CCFM, SCET etc.) for transverse-momentum dependent parton distribution functions (TMD). Practical implications of recent achievements in the theory of TMD are also presented.

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