

Transverse Momentum Distributions from Lattice QCD

This talk provides a systematic overview of recent progress in lattice QCD studies of transverse momentum distributions within the framework of large-momentum effective theory. Particular attention is given to first-principles determination of the Collins–Soper kernel, intrinsic soft function, and TMDPDFs with different polarization, such as unpolarized TMDPDF, Boer-Mulders function and so on. The talk concludes with a perspective on future developments and open challenges in this direction.

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