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qT/Q correction for unpolarized Drell-Yan

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The transverse momentum dependent (TMD) factorization theorem incorporates several types of power corrections to the leading term. For large values of transverse momentum, q_T/Q corrections become significant. They arise from higher-twist TMD distributions, which are singular at small transverse distances. We propose a method that reveals this singularity and makes the q_T/Q correction manifest. As an application, we consider twist-three TMD distributions and compute the q_T/Q corrections to next-to-leading power angular coefficients for unpolarized Drell-Yan. The result is in complete agreement with the data.

Abstract

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