

Threshold resummation of $1/N$ -suppressed QCD quantities via mass factorization

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We analyze the iterative structure of unfactorized partonic cross sections in the threshold (large- x) limit of massless perturbative QCD, and present all-order expressions for, at least, the leading- and next-to-leading logarithmic off-diagonal splitting functions P_{gq} and P_{qg} and the corresponding coefficient functions $C_{\phi,q}$ and $C_{2,g}$ in Higgs- and gauge-boson exchange deep-inelastic scattering. The application of this approach to other coefficient functions is discussed.

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