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Two-scale evolution from rapidity-ordered BFKL cascade

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The two-scale evolution of Collins-Soper-Sterman-type for the unintegrated PDF in the regime $q_T \ll \mu$ is derived from the BFKL evolution in physical rapidity with longitudinal momentum conservation constraint in coordinate space form. Comparisons of analytic results with Monte-Carlo implementation of the evolution are also done. This work is a continuation of the calculation done in Phys. Rev. D 104, 054039 (2021).

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