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New insights on DIS factorization at threshold

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Deep Inelastic Scattering at large Bjorken x provides an interesting and unique framework to test modern factorization techniques. Although this topic has been widely discussed in the past within the context of effective theories, a consistent treatment in full QCD still faces issues regarding the treatment of rapidity divergences, subtractions, and the role played by soft radiation. In this talk, I will present a factorization theorem for DIS in the threshold region valid in full QCD addressing in detail the subtleties involved in the separation of the various contributions. I will also point out strong analogies and similarities between Transverse Momentum Dependent (TMD) factorization, offering a new appealing perspective that might open the path for a global study of hadronization effects involving different observables.

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