

Differential threshold resummation for hadronic and SIDIS processes

Thursday 17 July 2025 12:40 (20 minutes)

Using renormalization group arguments in dQCD, I derive an analytic resummation formula for the threshold resummation of differential distributions with fixed longitudinal partonic kinematics. By matching to existing fixed-order NNLO computations I obtain NLL resummation for the Drell-Yan rapidity distribution with fixed partonic rapidity and for semi-inclusive deep-inelastic scattering. For Drell-Yan I compare to previous results obtained using SCET.

Author: FORTE, Stefano (Università degli Studi e INFN Milano (IT))

Presenter: FORTE, Stefano (Università degli Studi e INFN Milano (IT))