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Generalized Threshold Factorization with Full Collinear Dynamics

Tuesday, 16 July 2019 17:45 (20 minutes)

In this talk I present a new endpoint factorization theorem
that generalizes the classic soft threshold factorization for Drell-Yan-like processes.
It fully captures both soft and collinear dynamics,
including nondiagonal partonic channels that are neglected in the standard soft limit.
This allows us to construct a fixed-order approximant for the cross section
that covers all singular limits in the partonic momentum fractions.
Our factorization also enables the resummation of all large-x logarithms appearing in the Drell-Yan rapidity
spectrum toward large rapidities.

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