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Drell-Yan pair production with the CCFM-K evolution

Tuesday, 26 November 2019 16:30 (20 minutes)

Drell-Yan pair production using transverse momentum dependent parton distributions evolved
with the Catani-Ciafaloni-Fiorani-Marchesini-Kwieci\'nski (CCFM-K) equations in the single loop approximation will be discussed. Such equations are obtained assuming angular ordering of emitted partons (coherence) for $x \sim 1$ and transverse momentum ordering for $x \ll 1$. This evolution scheme also contains the Collins-Sterman-Sopper (CSS) soft gluon resummation.
Comparison with a broad class of data on the transverse momentum distribution of the DY pair will be presented.

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