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TMD Factorization and Resummation at NLO+NLP

Monday, 27 March 2023 16:00 (20 minutes)

In this talk, I'll present our results on transverse momentum dependent factorization and resummation at sub-leading power. I'll discuss the explicit formalism for calculating the hard, soft and collinear contributions to the sub-leading cross sections at one loop. I'll demonstrate that at this perturbative order, the leading and sub-leading power distributions mix, which gives rise to anomalous dimension matrices. Additionally, I'll discuss how the NLP TMDs match onto the collinear distributions.

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