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Transverse Momentum Resummation to Fourth Logarithmic Order

Thursday 3 November 2022 18:00 (15 minutes)

In this talk I will discuss the recent progress in the determination of the ingredients necessary for the resummation of TMD distributions to N⁴LL.

In particular, I will briefly review the calculation of the three loop beam functions and fragmentation functions and then discuss the determination of the 4 loop rapidity anomalous dimension.

I will conclude by presenting some phenomenological results implementing these ingredients to reach N⁴LL resummation accuracy.

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Session Classification: Parallel Session A: TMD theory