

Threshold resummation at next-to-leading power

Wednesday, September 11, 2019 10:00 AM (25 minutes)

In this talk, I am going to report on the resummation of the leading logarithmic corrections for the Drell-Yan production and Higgs production in gluon fusion at the next-to-leading power in threshold expansion. I will describe how the kinematic power-corrections are accounted for and the structure of renormalisation group equations for the generalised soft function which appears after factorisation of the time-ordered products. These include power-suppressed terms in the SCET Lagrangian. The leading logarithmic solution of the RG equations will be presented, I will perform a comparison with known fixed order results, and comment on the impact for phenomenological studies.

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