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Scheme dependence in pQCD at the four loop level

Tuesday 15 December 2020 12:35 (5 minutes)

Quantities representing measurables in physics should not depend on the method of calculating them in the underlying QFT. However, in perturbative QCD, computations must be truncated to a finite order meaning they are only approximations of the true quantity resulting in dependence on the renormalization scheme chosen. We investigate this dependence for the Bjorken sum rule and Adler D functions in various kinematic schemes with particular focus on the symmetric MOM schemes at four loops and compare with MSbar scheme behaviour as the benchmark.

Would you be interested in receiving feedback on your talk?

Yes

Will you be pre-recording your talk?

No

Length of talk

3-5 minutes

Are you happy for your talk to be recorded?

Yes

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Session Classification: 5 Minute Talks