



Contribution ID: 28

Type: Poster

Scheme Dependence in pQCD at the Four Loop Level

Thursday, 15 December 2022 19:30 (2 hours)

We consider measurable quantities calculated in massless perturbative QCD in a variety of schemes, including the symmetric momentum subtraction schemes, up to the four-loop level in order to investigate scheme dependence in the perturbative series as a theory lab. Appropriate error values should be attached to estimates of physical results which can be done by asserting that renormalization group invariance is true to order in truncation. Scheme invariance is investigated as a measure of error using measurements to calculate $\alpha_{\overline{\text{MS}}}(M_Z)$ from different schemes as a point of comparison for the results.

Type of presentation

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