

N3LO QCD DIS Single-jet production and NNLO QCD e^+e^- event orientation with NNLOJET

Tuesday, 28 August 2018 16:30 (25 minutes)

In this talk, recent results on the calculation of fully differential single-jet production in neutral current deep inelastic scattering at next-to-next-to-next-to leading order (N3LO) in the strong coupling are presented. The results are obtained by the combination of antenna subtraction at next-to-next-to leading order (NNLO) with the method of projection to born. Details of the combination of the two approaches will be discussed. Phenomenological results on NNLO QCD predictions for event-orientations in e^+e^- - annihilation will be also shown.

Primary author: NIEHUES, Jan

Presenter: NIEHUES, Jan

Session Classification: Perturbative QCD, jets and substructure

Track Classification: Perturbative QCD, Jets and Substructure