Contribution ID: 45

Type: not specified

Antenna Subtraction beyond NNLO

Wednesday, 11 September 2024 11:00 (25 minutes)

In this talk I discuss the extension of the well-established antenna subtraction method beyond next-to-nextto-leading order in perturbative QCD. The definition of N3LO antenna functions for final-state radiation and their analytical integration are briefly reviewed. Subsequently, I analyse the structure of the subtraction terms needed to remove infrared singularities at N3LO in the context of low-multiplicity processes. Finally, I discuss future phenomenological applications.

 Primary author:
 MARCOLI, Matteo (University of Durham)

 Presenter:
 MARCOLI, Matteo (University of Durham)

 Session Classification:
 Subtraction, slicing and loop/tree duality

Track Classification: Subtraction, slicing and loop/tree duality