Contribution ID: **41**   Type: **not specified**

NNLO Soft Function for One Massive Colored Particle Production at Hadron Colliders

The N-jettiness subtraction has proven to be an efficient method to perform differential QCD next-to-next-to-leading order (NNLO) calculations in the last few years. One important ingredient of this method is the NNLO soft function. We calculate this soft function for one massive colored particle production at hadron colliders. We select the color octet and color triplet cases to present the final results. We also discuss its application in NLO and NNLO differential calculations.

Primary author: Dr WANG, Jian (TUM)

Co-author: Dr LI, Hai Tao (Monash University)

Presenter: Dr WANG, Jian (TUM)