Contribution ID: 75 Type: **not specified**

Next-to-next-to-leading order N-jettiness soft function for tW production at the LHC

We calculate the N-jettiness soft function for tW production up to next-to-next-to-leading order in QCD, which is an important ingredient of the N-jettiness subtraction method for predicting the differential cross sections of massive coloured particle productions. We also compare the results with the predictions from renormalization group equations controlled by the soft anomalous dimension.

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Session Classification: Perturbative QCD, jets and substructure

Track Classification: Perturbative QCD, Jets and Substructure