DPF-PHENO 2024

Contribution ID: **742**   Type: **not specified**

QED corrections to the Neutral Current Drell-Yan process using jettiness subtraction method

Wednesday 15 May 2024 17:15 (15 minutes)

We present the results for NLO QED correction to the Neutral Current Drell-Yan process using jettiness subtraction method.
The jettiness subtraction method utilizes Soft and Collinear Effective Theory (SCET) to construct the factorization theorem and relevant ingredients for the precision calculations for various processes. While the jettiness subtraction method was originally developed for QCD correction calculations, we here apply this method to QED calculations. We will discuss the adjustments needed and challenges on using this method for QED calculations.

Mini Symposia (Invited Talks Only)

Author: XIAO, Jiayang

Co-author: WACKEROTH, Doreen

Presenter: XIAO, Jiayang

Session Classification: Electroweak & Higgs Physics

Track Classification: Electroweak & Higgs Physics