Contribution ID: 257

Type: Talk

A new method of extracting the strong coupling constant from energy correlators

Thursday, 27 October 2022 11:40 (25 minutes)

The energy correlators measure the pattern of the energy deposition in detectors. The collinear limit, where the angle between the detectors approaches zero, is of particular interest for describing the substructure of jets produced at colliders. By utilizing our factorization theorem and calculating the required ingredients, we perform the resummation of the logarithmically enhanced terms for the projected three-point energy correlator in the collinear limit through to NNLL by renormalization group evolution.

Presenter: XU, Zhen (Zhejiang University)

Session Classification: QCD