EPS-HEP2023 conference



Contribution ID: 743

Type: Parallel session talk

Direct determination of the rapidity anomalous dimension. Experimental and phenomenological applications.

Monday 21 August 2023 17:45 (12 minutes)

We present a novel method of extraction of the Collins-Soper kernel directly from the comparison of differential cross-sections measured at different energies. Using this method, we analyze the simulated data from the CASCADE event generator and extract the Collins-Soper kernel predicted by the Parton Pranching method in the wide range of transverse distances. Using the method, we also solve a long standing problem of comparison between TMDs obtained from PB and factorization approaches.

Collaboration / Activity

CMS / QCD+HGCAL

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