

TMD densities at leading and higher order from the Parton Branching method

Tuesday 28 July 2020 20:15 (15 minutes)

We present a new determination of Transverse Momentum Dependent (TMD) parton distributions obtained with the Parton Branching (PB) method at LO, NLO and NNLO. The PB TMDs are extracted from fits to precision DIS data using DGLAP splitting functions at leading and higher order. We extract both the collinear part and the transverse momentum dependent part of the parton densities.

In addition the fit sensitivity to dynamical resolution scales on TMD evolution in different kinematical region of x and Q^2 will be investigated.

Secondary track (number)

Primary author: TAHERI MONFARED, Sara (Deutsches Elektronen-Synchrotron (DE))

Co-authors: JUNG, Hannes (Deutsches Elektronen-Synchrotron (DE)); HAUTMANN, Francesco (Institute of Theoretical Physics)

Presenter: TAHERI MONFARED, Sara (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Strong Interactions and Hadron Physics

Track Classification: 06. Strong Interactions and Hadron Physics