

Global extraction of the kaon fragmentation functions at NLO in QCD

Abstract

We revisit the global QCD analysis of parton-to-kaon fragmentation functions at next-to-leading order accuracy using the latest experimental information on single-inclusive kaon production in electron-positron annihilation, lepton-nucleon deep-inelastic scattering, and proton-proton collisions. An excellent description of all data sets is achieved, and the remaining uncertainties in parton-to-kaon fragmentation functions are estimated and discussed based on the Hessian method.

Primary author(s) : HERNÁNDEZ-PINTO, Roger José (FCFM-UAS)

Presenter(s) : HERNÁNDEZ-PINTO, Roger José (FCFM-UAS)