The complex structure of strong interactions in Euclidean and Minkowski space

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Kaon distribution functions from empirical information and all-orders evolutions

Wednesday 28 May 2025 10:00 (45 minutes)

Using available information from Drell-Yan data on pion and kaon structure functions, an approach is described which enables the development of pointwise profiles for all pion and kaon parton distribution functions without reference to theories of hadron structure. The key steps are construction of structure-functionconstrained probability-weighted ensembles of valence DF replicas and use of an evolution scheme for parton DFs that is assumed to be all-orders exact.

Author:RODRÍGUEZ-QUINTERO, José (University of Huelva)Presenter:RODRÍGUEZ-QUINTERO, José (University of Huelva)Session Classification:Talks