

Implementation of TMD non-perturbative effects in RadISH

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In this work, we incorporate transverse momentum dependent (TMD) non-perturbative (NP) effects into the RadISH framework.

By accounting for these effects, we achieve an improvement in the theoretical description of the Drell-Yan cross section at low $p_{T,\ell\ell}$ (the transverse momentum of the final-state lepton pair).

A similar effect is observed in the ϕ_η^* differential cross section, where ϕ_η^* is a variable sensitive to the angular separation between the two outgoing leptons.

The inclusion of NP effects in RadISH is expected to play a significant role in the analysis of high-energy particle collisions.

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