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Combined resummation for Higgs transverse momentum distribution

We present new phenomenological studies of the impact of a recently suggested formalism that simultaneously resums logarithmic contributions that are enhanced at small p_T and large x . This formalism relies on the combination of a so-called threshold-improved transverse momentum and threshold resummation which allows for a systematic improvement of the transverse momentum resummation that is valid in the entire range of p_T . As a phenomenological application, we consider the Higgs boson production at LHC where we show that threshold-improved transverse momentum resummation leads to faster perturbative convergence at small- p_T while the inclusion of threshold resummation improves the agreement with fixed-order calculations.

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