

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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## Perturbative uncertainties in the Drell-Yan spectrum at low $q_T$

*Thursday, 15 April 2021 10:36 (18 minutes)*

We perform a quantitative study of different methods used to solve evolution equations in QCD ( $\alpha_s$ , PDFs, TMDs).

We highlight differences and similarities between numerical and analytical solutions, focusing on the  $q_T$  spectrum of Drell-Yan pair production analysed in the context of TMD/SCET-factorisation vs.  $q_T$ -resummation formalism.

The final aim is to provide a reliable theoretical-uncertainty estimate that will eventually allow for a faithful determination of non-perturbative effects from fits to data.

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