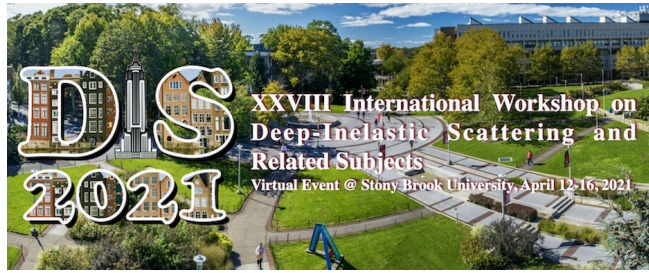


XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 425

Type: **Contributed Talk**

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 (α_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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Session Classification: Structure function and parton densities

Track Classification: Structure Functions and Parton Densities