

Understanding SIDIS data from QCD

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The most recent SIDIS measurements have challenged our understanding of factorization theorems in QCD. In order to perform reliable extractions of transverse momentum dependent functions (TMDs) it is essential to understand the extent to which the errors of factorization are under control. In this talk I will discuss about the issues encountered when comparing theory and experiment. I will also argue that careful examination of the features of the data is crucial for reliable TMD extraction. As an example of this, I will present results from a recent analysis on Sivers asymmetries by HERMES and COMPASS.

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