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TMDs and spin asymmetries in SIDIS

In recent years the measurements of single spin asymmetries (SSAs) in final state hadronic distributions in semi-inclusive processes have been widely used to access the underlying Transverse Momentum Dependent (TMD) parton distributions. The detailed understanding of the orbital structure of partonic distributions, encoded in TMD PDFs has been widely recognized as one of the key objectives of the JLab 12 GeV upgrade, and a driving force behind the construction of the Electron Ion Collider. Although the interest to TMD PDFs has grown enormously, we are still in need of fresh theoretical and phenomenological ideas. The main challenges still remaining is the extraction of actual TMDs from different spin and azimuthal asymmetries in a reliable and model independent way. In this talk, we present an overview of the latest developments and future studies of the TMD PDFs from variety of observables accessible in semi-inclusive DIS at different facilities worldwide.

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