

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 609

Type: **Contributed Talk**

Study of unpolarized TMDs in Semi-Inclusive Deep-Inelastic Scattering

Thursday, 15 April 2021 13:45 (18 minutes)

Semi-Inclusive Deep-Inelastic Scattering (SIDIS) is one of the processes that allow us to extract information about Transverse Momentum Distributions (TMDs) and will be the main access to TMDs at the EIC. Using sensitivity coefficients and reweighing techniques, we provide an estimate of the impact that EIC data will have on unpolarized Transverse-Momentum Dependent (TMD) Parton Distribution Functions (PDFs) and Fragmentation Functions (FFs). The study is performed in the TMD factorization framework and is based on the global fit performed by the Pavia group in 2017.

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Session Classification: Spin Physics

Track Classification: Spin Physics