

DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

TMDs global extractions by the MAP Collaboration

Thursday, 30 March 2023 16:30 (20 minutes)

We present the latest results of the MAP collaboration about the extraction of Transverse-Momentum-Dependent (TMD) distributions at the N^3LL logarithmic accuracy in the resummation of q_T -logarithms. Firstly, we present the most recent extraction of unpolarized quark TMD parton distribution functions (TMD PDFs) in the proton and fragmentation functions (TMD FFs) from a global fit of Drell–Yan and Semi-Inclusive Deep-Inelastic Scattering (SIDIS) data sets. Then, we show our extraction of unpolarized quark TMD PDFs in a pion from a fit of all existing pion-induced Drell–Yan data, showing the necessity of new data to better constrain the TMD curves.

Submitted on behalf of a Collaboration?

Yes

Participate in poster competition?

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