

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



Contribution ID: 21

Type: **Parallel talk**

Definition and Evolution of Di-Hadron Fragmentation Functions

Thursday 30 March 2023 14:00 (20 minutes)

We propose a new definition of unintegrated di-hadron fragmentation functions (DiFFs) which is compatible with the probability interpretation of collinear DiFFs. We also derive the leading-order evolution equations for those DiFFs. Furthermore, we compare our findings in detail with previous results in the literature. Unintegrated DiFFs are important for obtaining information on the transversity distributions of the nucleon from existing and future data on di-hadron production in semi-inclusive DIS and in proton-proton collisions.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

No

Primary author: METZ, Andreas

Co-authors: COCUZZA, Christopher (Temple University); MELNITCHOUK, Wally (Jefferson Lab); PITONYAK, Daniel (Lebanon Valley College); PROKUDIN, Alexey (PSU Berks and JLab); SATO, Nobuo; SCHLEGEL, Marc (New Mexico State University); SEIDL, Ralf

Presenter: METZ, Andreas

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