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Phenomenology of partonic Sivers TMD

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Sivers function is a fundamental TMD which allows to investigate the 3D structure of polarized nucleons. We present a recent extraction of this function from azimuthal asymmetries in semi-inclusive DIS. This study includes for the first time TMD evolution contributions and a parametrization of unpolarized TMDs determined directly from data. Through this analysis we can obtain a tomography of the internal structure of nucleons in momentum space. Finally, We discuss a possible way to determine quark angular momentum through its relation with the extracted distribution.

Primary authors: Dr DELCARRO, Filippo (Jefferson Laboratory); Prof. RADICI, Marco (INFN, Sezione di Pavia); BACCHETTA, Alessandro (University of Pavia and INFN)

Presenter: Dr DELCARRO, Filippo (Jefferson Laboratory)

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