



Contribution ID: 37

Type: **not specified**

Sivers TMD within SCET

We study the TMDs in SIDIS process within the framework of Soft-collinear effective field theory (SCET). We calculate the factorized spin dependent cross-section for SIDIS and formulate the matrix elements corresponding to the TMDs.

We focus on the Sivers TMD resulting when the target is transversely polarized with unpolarized quarks. The matching coefficients at tree and one loop level are calculated.

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