Light Cone 2017 (LC2017)

Frontiers in Light Front Hadron Physics : Theory and Experiment
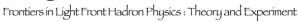
18th – 22nd September 2017, University of Mumbai

Contribution ID: **37**   Type: **not specified**

Sivers TMD within SCET

We study the TMDs in SIDIS process within the framework of Soft-collinear effective
filed 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.

Authors: Dr NAIR, Sreeraj (IISER Bhopal); Dr JAIN, Ambar (IISER Bhopal)

Presenter: Dr NAIR, Sreeraj (IISER Bhopal)