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Azimuthal Spin Asymmetries in SIDIS

Azimuthal spin asymmetries provide valuable information about the three dimensional structure of proton. According to the factorization theorem, azimuthal asymmetries are related to the transverse momentum dependent (TMDs) distributions which provide information about three dimensional structure as well as spin structure of proton.

In this talk, I will present the results of azimuthal spin asymmetries in semi-inclusive deep inelastic scatterings (SIDIS) in a light front quark-diquark model of the proton. The model predictions are found to be in good agreement with COMPASS and HERMES data.

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