

QED Corrections to Azimuthal Asymmetries of SIDIS Cross sections

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We analyze an impact of QED corrections on observables of semi-inclusive deep-inelastic scattering (SIDIS) of electrons and muons on a proton target. It is shown that both the radiative effects and two-photon exchange generate new azimuthal dependent-terms and corresponding $\cos(\phi)$ moments. A quark-diquark model of a nucleon was used in the calculations of two-photon effects which appear to be essential for both the magnitude and transverse-momentum dependence of $\cos(\phi)$ and $\cos(2\phi)$ moments.

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