The CLAS12 detector started data taking with a polarized 10.6 GeV electron beam in 2018 at Jefferson Laboratory (JLab). One of the quantities which could be extracted from the data is the moment $A_{LU}^{\sin(\phi)}$ corresponding to the polarized electron beam spin asymmetry in semi-inclusive deep inelastic scattering.

$A_{LU}^{\sin(\phi)}$ is a twist-3 quantity which provides information about the quark gluon correlations. The study was performed with a 10.6 GeV longitudinally polarized electron beam and an unpolarized liquid hydrogen target.

The talk will present a simultaneous study of two kaon channels ($K^+$ and $K^-$) over a large kinematic range with virtualities $Q^2$ ranging from 1 GeV$^2$ up to 8 GeV$^2$. The measurement in a large range of $z$, $x_B$, $p_T$ and $Q^2$, including up to now not measured kinematic regions, will enable a comparison with different reaction models.

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