

Abstract Submitted  
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**Studies of Chiral-Odd GPDs in Hard Exclusive Pseudoscalar Meson Production** ANDREY KIM, University of Connecticut - Storrs, HARUT AVAKIAN, VOLKER BURKERT, Jefferson Lab, CLAS COLLABORATION — Deeply virtual exclusive electroproduction of pseudoscalar mesons in hard scattering processes provides a unique avenue to access chiral-odd GPDs. The latter enter the soft matrix elements in transverse virtual photon-proton scattering. Transverse photon polarization dominates  $\pi^0$ ,  $\eta$ , and  $K$  production in the multi GeV region owing to the fact that  $t$ -channel meson pole contribution either does not occur ( $\pi^0$  and  $\eta$ ), or is predicted to be relatively small ( $K^+$ ,  $K^0$ ). We will present ongoing studies of spin and azimuthal asymmetries in hard exclusive production of pseudoscalar mesons at Jefferson Lab, and proposed future measurements to study chiral-odd GPDs at JLab and Electron Ion Collider. Combination of measurements of cross sections, spin and azimuthal asymmetries with a longitudinally polarized beam and both unpolarized and longitudinally polarized proton targets for  $\pi^0$ ,  $\eta$  and  $K^+$ ,  $K^0$  electroproduction will provide a detailed test of the mechanism for pseudoscalar meson electroproduction including strangeness, and allow to perform flavor decomposition of underlying chiral-odd GPDs.

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