

Abstract Submitted
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Studies of L-T Separated Kaon Electroproduction¹ RICHARD TROTTA, TANJA HORN, Catholic Univ of America, PETE MARKOWITZ, Florida International University, PETE MARKOWITZ, STEPHEN KAY, VIJAY KUMAR, ALI USMAN, University of Regina — There has been significant progress in the theoretical description of the nucleon structure in terms of QCD degrees of freedom, in particular through generalized Parton distributions (GPDs). The flavor degrees of freedom of the produced meson selectively probe aspects of the reaction mechanism and the transition from hadronic to partonic degrees of freedom. Kaon data at larger virtual photon mass allows one to search for the onset of the partonic picture. In this regime, hard and soft physics have been shown to factorize. The lack of necessary experimental facilities has left a gap in l-t separated data for exclusive k^+ production from the proton above the resonance region. The newly upgraded 12 GeV beam energy at Jlab has provided an opportunity to expand kaon data. The l-t separated cross section extraction procedure, along with early analysis results, will be discussed following the run of e12-09-011, the Jlab 12 GeV kaon experiment.

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