



Contribution ID: 114

Type: **not specified**

Exclusive meson production with CLAS/CLAS12 and transverse GPDs

Tuesday, 12 December 2017 15:25 (25 minutes)

Generalized Parton Distributions (GPDs) provide a route to spatial tomography of the nucleon, and have revolutionized how we characterize the nucleon structure, by providing a unified description of quark densities in spatial coordinates in relation to their momenta. GPDs can be accessed by measuring hard exclusive processes such as deeply virtual Compton scattering (DVCS) and deeply virtual meson production (DVMP). Studies of the GPDs will be one of the flagship programs of the 12 GeV CEBAF upgrade and a driving force behind the construction of the Electron Ion Collider (EIC). In this talk, I present recent results of the unpolarized differential cross sections and beam/target asymmetries from deeply virtual neutral pion and eta productions in the deep inelastic regime with the CEBAF Large Acceptance Spectrometer (CLAS), and I will also give an overview of the future programs with CLAS12 at Jefferson Lab.

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Session Classification: Session II-c