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Deeply virtual π^0 electroproduction with CLAS12 at Jefferson Lab ANDREY KIM, Univ of Connecticut - Storrs, CLAS COLLABORATION — The measurements of deeply virtual exclusive electroproduction processes are used to access and constrain the Generalized Parton Distributons from experimental observables. Among the variety of these exclusive reactions, π^0 electroproduction channel was shown to be particularly sensitive to the largely unknown chiral-odd GPDs $\bar{E}_T$ and H_T which contain information on quark transverse spin densities in unpolarized and polarized nucleons. Recently, the CEBAF Large Acceptance Spectrometer (CLAS12) at Jefferson Lab carried out experimental measurements of longitudinally polarized 10.6 GeV electrons scattering on unpolarized liquid hydrogen target. This presentation will focus on the measurements of deeply virtual π^0 production (DVπ^0P) from CLAS12 in a wide kinematic region with a photon virtuality Q^2 up to 8 GeV^2, extraction of beam spin asymmetries and the planned analysis in terms of underlying Generalized Parton Distributions (GPD). In this talk we will report the current status of the DVπ^0P analysis and present preliminary results from CLAS12 data.

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