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Beam asymmetry for exclusive π0p, π+n electroproduction in the resonance region with the CLAS12 VALERII KLIMENKO, University of Connecticut, VIKTOR MOKEEV, JLab, CLAS COLLABORATION — The N* program with the CLAS12 detector offers a unique opportunity to explore the nucleon resonance structure at highest photon virtualities ever achieved, in the range of Qˆ2>5.0 GeVˆ2. Studies of resonance electroexcitation in Npi electroproduction represent the important part in these efforts.
The preliminary CLAS12 results on beam spin asymmetry in piˆ0p and piˆ+n exclusive channels will be presented in the talk. The data were collected with the electron beam energy 10.6 GeV in the resonance region of W<2.0 GeV and in the range of photon virtualities 1.0 <Qˆ2<10.0 GeVˆ2. Combined studies of beam asymmetries and Npi exclusive cross sections are critical in order to obtain the first results on electrocouplings of all prominent in these channels resonances at Qˆ2>5.0 GeVˆ2.

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