

Abstract Submitted
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First results on the electrocouplings of high lying N^* states from $N\pi\pi$ electroproduction off protons with the CLAS detector VICTOR MOKEEV, VOLKER BURKERT, Jefferson Lab, CLAS COLLABORATION — We extended a phenomenological model [1], that was utilized for the evaluation of resonance transition helicity amplitudes from $N\pi\pi$ electroproduction cross section data at $W < 1.6$ GeV and $Q^2 < 0.6$ GeV², to provide larger kinematic coverage. A successful description of the CLAS data [2] on nine differential $N\pi\pi$ cross sections was achieved at $W < 1.8$ GeV and $Q^2 < 1.5$ GeV². The phenomenological analysis allowed us to isolate the resonant contribution and to determine electrocouplings for states with masses above 1.6 GeV. For the first time, results for the $S_{31}(1620)$, $S_{11}(1650)$, $F_{15}(1685)$, $D_{33}(1700)$, and $P_{13}(1720)$ states were obtained from the analysis of the $p\pi^+\pi^-$ exclusive channel.

[1] V. I. Mokeev et al., arXiv:0906.4081[hep-ex], accepted by PRC.

[2] M. Ripani et al., CLAS Collaboration, Phys. Rev. Lett. **91**, 022002 (2003).

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