

Parallel talk

Single photo and electroproduction of pions at

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摘要

Within the Excited Baryon Analysis Center we have performed a dynamical coupled-channels analysis of the available $p(e, e' \pi)N$ data in the region of $W \leq 1.6$ GeV and $Q^2 \leq 1.45$ (GeV/c)². The channels included are γ^*N , πN , ηN , and $\pi\pi N$ which has $\pi\Delta$, ρN , and σN components. With the hadronic parameters of the model determined in our previous investigations of $\pi N \rightarrow \pi N$ reaction, we have found that the available data in the considered $W \leq 1.6$ GeV region can be fitted well by only adjusting the bare $\gamma^*N \rightarrow N^*$ helicity amplitudes for the lowest N^* states in P_{33} , P_{11} , S_{11} and D_{13} partial waves. The meson cloud effect, as required by the unitarity conditions, on the $\gamma^*N \rightarrow N^*$ form factors are examined.

关键词 [meson electroproduction, helicity amplitudes](#)

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