

Oral contribution

Recoil polarimetry in meson photoproduction at MAMI

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摘要

The nucleon excitation spectrum remains poorly known, with the masses, widths, EM couplings and even existence of many states not well established. A program of experiments using meson photoproduction off the nucleon is being carried out to improve this situation. A new large acceptance recoil polarimeter has been developed by the Edinburgh group for use in such reactions with the Crystal Ball at MAMI. This work summarizes the procedure used to measure recoil polarization with the new device and presents some preliminary results for the double polarization observable  $C_x$  in the reaction  $\gamma p \rightarrow p \pi^0$ , compared to the current partial wave analysis.

关键词 [polarimeter, meson photoproduction, polarization observable, recoil](#)

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