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Study of Charged Pion Photoproduction on Deuteron with Tagged Photons

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摘要

The reactions $\gamma d \rightarrow \pi pp$ and $\gamma d \rightarrow \pi pn + n$ have been studied in an energy range from 0.8 to 1.1 GeV at the tagged photon facility of Laboratory of Nuclear Science, Tohoku University. Charged pions and protons in the final state were measured by using the Neutral Kaon Spectrometer (NKS2). The analysis of the $\gamma d \rightarrow \pi pp$ was mainly used to check the acceptance of the NKS2 and to calibrate the tagged photon energy. The photoproduction of the $\Delta^+ + \Delta^-$ was identified in the $\gamma d \rightarrow \pi pn + n$ reaction. Since the data analyses are still in progress, we issue an interim report and preliminary results.

关键词 [deuteron](#) [double delta](#) [pion photoproduction](#)

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