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【365】 Measurement of $\pi^0\pi^\pm$ Photoproduction off the Deuteron with the A2 Experiment

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Photoproduction of pion pairs off (quasi-) free nucleons is important to investigate the excitation spectrum of the nucleon for low energy QCD, in particular for decays via intermediate excited states. Quasi-free production of such pairs off heavier nuclei also figures prominently in the study of the in-medium properties of nucleon resonances. In the present work production of $\pi^0\pi^\pm$ pairs off liquid deuterium is analysed using data taken at MAMI with the A2 experiment as a starting point for a detailed investigation of this channel for nuclear targets. Data for a ^4He target have also already been taken.

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