

Photo- and Electroproduction of Kaon Off a Deuteron

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Abstrak

Investigation of the Response Functions.

All possible Response Functions in photo- and electroproduction of kaons on the nucleon have been investigated in the framework of an isobaric model. We found that some Response Functions are sensitive to the choice of the strange hadron form factors. Meanwhile, we have also improved the elementary model for kaon photoproduction by using a certain method to maintain gauge invariance of the amplitude. We have published the results in Ref. [1, 2, 3] (see attachments).

Photoproduction of Kaon off a Deuteron.

Using an established and consistent model for kaon photoproduction on the nucleon, we have calculated photoproduction of kaons on the deuteron in the frame-work of the nucleon spectator model. We have compared the result with the previous study by Xiaodong Li et. al. [4].