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Anomalous Contributions in Kaon photoproductions

S.Ozaki, H.Nagaguri, A.Gisaja

(Research Center for Nuclear Physics(RCNP), Ibaraki, Osaka 567 0047, Japan)

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摘要 We study kaon photoproduction from the nucleon. Using the photon beam asymmetry, we discuss the couplings of the K and K* mesons with baryons. In previous studies of photoproductions, the K* coupling strength has been treated as parameters to reproduce experimental data. Here instead we propose to use the coupling strength which is derived from a microscopic escription. By including a higher order loop contribution induced by the QCD anomaly, we demonstrate that the experimental data can be explained well. The use of a microscopic description enables us a better understanding of the reaction dynamics which provides further basis of hadron dynamics.

关键词 [Kaon photoproduction](#) [QCD anomaly](#)

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通讯作者:

S.Ozaki sho@rcnp.osaka-u.ac.jp

作者个人主页: S.Ozaki; H.Nagaguri; A.Gisaja

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