



Contribution ID: 81

Type: **not specified**

Probing Generalized Parton Distributions through the photoproduction of a photon-meson pair

Exclusive photoproduction of a gamma-meson pair in the kinematics where the pair has a large invariant mass and the final nucleon has a small transverse momentum is described in the collinear factorization framework. The scattering amplitude is calculated at leading order in α_S and the differential cross sections for the process are estimated in the kinematics of the JLab 12-GeV experiments.

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Track Classification: Spin physics