

Exclusive Electroproduction of Vector- and Pseudoscalar Mesons at HERMES

C. Schill (for the HERMES Collaboration)
LNF-INFN, Italy

The production of vector- and pseudoscalar mesons in deep-inelastic lepton scattering gives a mean to access the recently introduced generalized parton distributions (GPDs). These GPD provide a unified description of hadron structure, which can be applied to many different reactions. Recent data on exclusive electroproduction of π^+ mesons and diffractive ρ^0 , ϕ and ω -production, collected by the HERMES collaboration at DESY, are presented. It will be shown, how the data collected by HERMES can be used to obtain first information on GPDs by comparing them to calculations based on a description of the reactions in terms of GPDs.