

Plenary talk

Photoproduction of ω -Mesons at ELSA and the role of azimuthal asymmetries

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收稿日期 2009-8-7 修回日期 网络版发布日期 2009-11-11 接受日期 2009-11-11

摘要

Measurements of ω photoproduction of the Crystal-Barrel/TAPS experiment at the ELSA accelerator of Bonn University are presented which used linearly polarized tagged photon beam from threshold to $E_{\gamma}=1700$ MeV. The azimuthal asymmetries Σ and Σ_n indicate s-channel resonance contributions on top of the established t-channel exchange processes. These findings are further enhanced by a very first measurement of the G-asymmetry which, in addition to the polarized photon beam, also requires a longitudinally polarized proton target. An intuitive interpretation of the specific sensitivity of the azimuthal asymmetries to the reaction mechanisms involved is given.

关键词 [baryon resonances, photoproduction, vector mesons, polarization](#)

分类号

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