

Publication

Beam asymmetries in near-threshold ω photoproduction off the proton

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The photoproduction of omega mesons off protons has been studied at the Bonn ELSA accelerator from threshold to E-gamma = 1700 MeV. Linearly polarized beams were produced via coherent bremsstrahlung. Large photon asymmetries in excess of 50% were obtained. For the first time the pion asymmetries associated with the omega $\rightarrow \pi(0)\gamma$ decay were measured and found close to zero. The asymmetries indicate s-channel resonance formation on top of t-channel exchange processes.

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