

# Asymmetry of the Angular Distributions of the Products of the $A(\gamma, pn)(A \geq 2)$ Reactions on $^{12}\text{C}$ and $^{16}\text{O}$ Nuclei at Energies of up to 150 MeV

A. F. Khodyachikh

*Kharkov Institute of Physics and Technology, ul. Akademicheskaya 1, Kharkov, 310108 Ukraine*

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**Abstract**—In a model-independent way, the asymmetry with respect to a right angle has been obtained for the angular distributions of the products of the reactions  $^{12}\text{C}(\gamma, pn)^{10}\text{B}$  and  $^{16}\text{O}(\gamma, pn)^{14}\text{N}$  by using statistical data measured by a diffusion chamber in a magnetic field. The measurements have been performed in a beam of bremsstrahlung photons with an endpoint energy of 150 MeV. The energy dependence of the asymmetry has been qualitatively explained by the quasideuteron model of photon absorption.