EXCITATION MECHANISM OF ISOMER STATES OF ^{197}Pt AND ^{197}Hg NUCLEI IN PHOTONEUTRON REACTIONS IN THE ENERGY REGION OF A GIANT $E1$-RESONANCE

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Within the 8 – 17 MeV energy range, the dependence of isomer yield ratios on the gamma-quanta energy in the ^{198}Pt (γ, n) ^{197m,g}Pt and ^{198}Hg (γ, n) ^{197m,g}Hg reactions is studied. The experimental results are compared with those calculated within the framework of the cascade-evaporation model as well as obtained under the influence of particles. The mechanisms of isomer states population are discussed.