THE STUDY SECONDARY GAMMA-TRANSITIONS FROM ¹⁵⁵Gd (n,γ) ¹⁵⁵Gd REACTION FOR DIFFERENT FILTERED NEUTRON BEAM ENERGIES

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The theoretical and experimental estimations of the possibility to obtain the information about the excited level spins from secondary capture γ -ray studies for different quasimonoenergetic neutron beam energies were fulfilled. The preliminary experimental results confirm the dependence of the secondary γ -ray intensities ratios, taken for the different neutron energies, from the spin of decaying level, and the possibility to describe this effect using the γ -cascade model.