

STUDY EXCITATION OF ISOMERIC STATES IN (γ,n) AND ($n,2n$) REACTIONS ON ^{82}Se , ^{81}Br AND ^{90}Zr

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This work presents work results of investigation of the isomeric yield ratios Y_m/Y_g of the $^{82}\text{Se}(\gamma,n)^{81m,g}\text{Se}$, $^{82}\text{Se}(n,2n)^{81m,g}\text{Se}$, $^{81}\text{Br}(\gamma,n)^{80m,g}\text{Br}$, $^{81}\text{Br}(n,2n)^{80m,g}\text{Br}$, $^{90}\text{Zr}(\gamma,n)^{89m,g}\text{Zr}$ and $^{90}\text{Zr}(n,2n)^{89m,g}\text{Zr}$ reactions. The isomeric yield ratios were measured by the induced radioactivity method. Samples of natural Se, Br and Zr have been irradiated in the bremsstrahlung beam of the betatron SB-50 in the energy range of 10–35 MeV with energy step of 1 MeV. For 14 MeV neutron irradiation we used the NG-150 neutron generator.

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