

INVESTIGATION OF ISOMERIC YIELDS RATIO IN (γ, n) -REACTION IN NUCLEUS OF ^{121}Sb

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Isomeric yield ratios in $^{120m,g}\text{Sb}$ have been measured in (γ, n) -reaction for the several end-point energies of bremsstrahlung photons from 9.6 to 25 MeV. Theoretical values of the isomeric yield ratios in $^{120m,g}\text{Sb}$ have been calculated by using code TALYS-1.0. Statistical nature of reactions with γ -rays has been shown both in the around threshold energy region and in the high energy region of the bremsstrahlung photons.

Keywords: isomeric yields ratio, activation method, γ -ray spectroscopy, statistical model.