SPECIFICATION OF ICC IN γ-TRANSITIONS IN THE ¹⁵³Gd AND ¹⁶⁰Tb DECAY

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Based on performed specification of internal conversion coefficients (ICC) for basic γ -transitions in decay ^{153}Gd and ^{160}Tb the anomalies in ICC, conditioned by penetration effect were defined and studied. For $\gamma 70(M1+E2)$ and $\gamma 103(M1+E2)$ in decay ^{153}Gd a penetration parameter in M1-component is measured, which equal accordingly $0.8 \pm ., 2$ and 4.7 ± 0.4 . The values δ is defined with calculation λ and equal to 0.105 ± 0.008 and 0.117 ± 0.004 . In decay ^{160}Tb anomalies in ICC are defined for γ -transitions 299, 1178, 1272 keV with E1 multipolarity and definite penetration λ_i parameters. For γ 299 λ_1 = -1.8 \pm 1.3; for γ 1178 λ_1 = 2 \pm 0.9; for γ 1272 λ_1 1 = 1 \pm 0.5; λ_2 =17 \pm 3; λ_3 = 3.8 \pm 0.5.