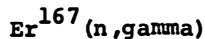


Gamma-ray spectra from the reaction



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Gamma-rays from the capture of thermal neutrons in  $\text{Er}^{167}$  were measured. Thermal neutron beam is optimized and lead out from the reactor A in Vinča. The flux of thermal neutrons was  $4 \cdot 10^7 \text{ n/cm}^2\text{s}$  and of fast neutrons  $3 \cdot 10^5 \text{ n/cm}^2\text{s}$ , the cadmium ratio being 113. The spectrum was measured in the range from 50 - 780 keV by using a Ge(Li) detector having the efficient volume of  $15 \text{ cm}^3$ . The spectra were analyzed by using an automatic and a semiautomatic program with the CDC 3600 computer.

By using the time deferentated coincidences correlations between gamma-rays which populate and depopulate the 1,994 keV ( $t_{1/2}=112 \text{ s}$ ) state were identified and details of the  $\text{Er}^{168}$  decay scheme, related to this level, were found. Thus a triplet of 6229, 6225 and 6221 keV, defining states at 1541, 1546 and 1550 keV, was found. The state at 1546 keV identified as a member of the rotatinal band having  $K=1$  and the spin  $4^-$ . The results obtained were compared to those reported by other authors.