

A. P. Lashko, T. N. Lashko

**THE INTERNAL CONVERSION COEFFICIENT FOR THE K-FORBIDDEN  
E1-TRANSITION WITH THE ENERGY OF 55 keV IN  $^{177}\text{Hf}$**

The precise  $\gamma$ -ray intensities of the transitions following the decay of 160-day isomeric state in  $^{177}\text{Lu}$  have been measured by using two different types of HPGe-detectors. The values of the internal conversion coefficient and penetration parameter  $\lambda$  for E1-transition with the energy of 55 keV were determined from intensity balance of 21/2<sup>+</sup> 1260 keV level in  $^{177}\text{Hf}$ .

*Keywords:* radioactivity,  $^{177\text{m}}\text{Lu}$ ,  $\gamma$ -spectra, HPGe-detectors, measurements  $I(\gamma)$ , internal conversion, penetration parameter.