

RESEARCH OF THE SECONDARY ELECTRONS FROM RADIOACTIVE RADIATION IN SOURCES $^{152,154,155}\text{Eu}$ AND ^{153}Gd IN VARIOUS EXPERIMENTAL CONDITIONS

N. F. Mitrokhovich

The secondary electrons of the near-zero energy (e_0), forming in sources $^{152,154,155}\text{Eu}$ and ^{153}Gd , used in spectroscopy of conversion electrons are investigated. On the base of $(\gamma-e_0)$ - and $(KX-e_0)$ coincidences the Z -characteristics $Z=N(\gamma-e_0)/N\gamma$ and Z_β/Z_ϵ emitting of e_0 -electrons are determined depending on a nuclide, its environment, geometry of measurements and strength of an assembling electrical field. It was defined, that in formation of e_0 -electrons from β -decay of ^{154}Eu the unknown near-zero component participates.