

INVESTIGATION OF THE DEPENDENCE
OF NEAR-ZERO-ENERGY ELECTRONS
ON THE THICKNESS OF SOURCES
FOR DIFFERENT MODES
OF RADIOACTIVE DECAY

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S u m m a r y

The near-zero-energy electron e_0 yield dependence on the source thickness for different modes of radioactive decay (β -decay, electron capture, internal conversion) is investigated by the $(e\gamma)$ -coincidence method. ^{152}Eu and ^{154}Eu sources with different thicknesses (from 1 to 50 mg/cm^2) are investigated. The contribution of various layers of the radioactive sources is determined for each mode of decay. The nature of this phenomenon is discussed.