

## ENERGY AND CORRELATION PROPERTIES OF “SHAKE-OF” ELECTRONS AT $\beta$ -DECAY

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Measurements of energy spectrum of “shake-of” electrons at the decay of  $^{152}\text{Eu}$  and their correlatings according to outgoing direction with a momentum of  $\beta$ -particle are conducted. The measurements are performed in the range of 150 - 2000 eV on the installation of coincidences of  $\gamma$ -quanta and  $\beta$ -particles with low energy of electrons, including  $e_0$ -electrons of the secondary electron emission ( $\gamma\beta e_0$ -coincidences). Registration of “shake-of” electrons was implemented on  $e_0$ -electrons, created by them. Under the obtained data 70 % of “shake-of” electrons in the measured part of the spectrum is arranged up to 500 eV, and “shake-of” electrons their selves are heavy correlated according to outgoing direction with a  $\beta$ -particle, herein their correlating with the energy of “shake-of” electron is increasing, qualitatively subjected to  $\sim E^{1/2}$  relation.

*Keywords:* electrons of “shake-of”,  $\beta$ -decay,  $^{152}\text{Eu}$ .