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**THE SPECTRA ENERGIES OF ELECTRONS AUTOIONIZATION
AND THEIR CORRELATION ON β -PARTICLE EMISSION DIRECTION**

The study of autoionization of atomic shell at β -decay ^{152}Eu was performed. Relation of energy of autoionization electrons and their correlation on outgoing direction with a β -particle from boundary energy of β -particle was investigated. Measurements are executed on the installation of coincidences of γ -quanta and β -particle with low energy electrons at registration of autoionization electrons created by e_o -electrons of the secondary electron emission ($\gamma\beta e_o$ -coincidences). Due to obtained data the expansion of a energy spectrum of autoionization electrons is proportional to boundary energy of β -spectrum. Correlation direction of emitting of autoionization electron on outgoing directions of β -particle does not depend on energy β -particle.

Keywords: autoionization electrons, β -decay, ^{152}Eu .