

M. F. Mitrokhovich, V. T. Kupryashkin, L. P. Sidorenko

**CORRELATION OF THE AUGER ELECTRONS DIRECTION OF MOVEMENT
WITH THE INTERNAL ELECTRON CONVERSION DIRECTION OF MOVEMENT**

On installation of coincidences of γ -quanta with electrons and with low energy electrons about zero area the spatial correlation of the direction emitting Auger-electrons and electron of internal conversion was investigated at the ^{152}Eu decay. Auger-electrons were registered on e_o -electrons of the secondary electron emission ($\gamma e_{IC} e_o$ -coincidences). It was established, that Auger-electrons of M-series, as well as electrons "shake-off" at β -decay and internal conversion, are strongly correlated at the direction of movement with the direction of movement of basic particle (β -particle, conversion electron), moving together mainly in the forward hemisphere. The intensity of correlated M-Auger radiation in range energy 1000 - 1700 eV is equal to intensity of correlated radiation "shake-off" electron from internal conversion in this range. The assumption, that the presence of spatial correlating Auger-electron and conversion electron caused by current components of electron-electron interaction of particles in the final state is made.

Keywords: Auger-electron, conversion electron, "shake-off" electron, ^{152}Eu .