

9. CORRELATION ELECTRON INTERNAL CONVERSION WITH “SHAKE OFF” ELECTRONS UNDER ε -DECAY ^{152}Eu

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On special vacuum coincidences installation γ -quanta and electrons with electrons, including the e_0 -electrons of second electronic emission (γe_0 -coincidences), explored correlation conversion electron with “shake off” electron in ε -decay ^{152}Eu . For electrons area with energies 200 - 1750 eV for the first time received, that intensity of low power electronic radiation, accompanied ε -decay ^{152}Eu (“shake off” electrons), in direction of emitting conversion electron in 8 (1) once excels intensity of this radiation in direction, opposed to emitting conversion electron. The e_0 -electrons yield measuring for electrons (“shake off” electrons) area with that energy region shows such increase yield at measuring γe_0 -coincidences on comparison with γe_0 -coincidences. All that indicates on predominantly emitting of “shake off” electrons in such half sphere as conversion electron, caused strong flight directions correlation between conversion electron and “shake off” electron.