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ATOMIC IONIZATION AT ANNIHILATION OF POSITRONS EMITTED AT β^+-DECAY

Atomic ionization at annihilation of positron with another electron of daughter's atom at β^+-decay is studied. Processes of the different atomic shells ionization at annihilation of positron, emitted at β^+-decay, with K-electron of daughter's atom are considered. The relative contribution of probabilities of these processes in case of electron emission from different ns-shells (n = 1, 2, 3, 4) is found. It is shown that the most probable process is related to emission of other K-electron.

Keywords: annihilation, β^+-decay, atomic shell, K-electron, L, M, N-atomic shells.