ANNIHILATION OF POSITRONS, EMITTED AT $\beta^{\text{+}}\text{-}\text{DECAY}$ WITH ELECTRONS OF THE DAUGHTER'S ATOM

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The processes of photon creation or atom ionization during annihilation of positron with other electron of daughter's atom at β^+ -decay are considered. The estimations for the probability of one photon annihilation emitted in the process β^+ -decay of positron with K-electron of daughter's atom are obtained. Process of atomic shell ionization during annihilation of positron, emitted at β^+ -decay, with K-electron of daughter's atom is considered. Ratio of probabilities of these processes to the probability of ordinary β^+ -decay is found. *Keywords*: annihilation, β^+ -decay, atomic shell, K-electron.