

LOW-ENERGY SPECTRUM OF ELECTRONS
EMITTED AT IRRADIATION OF Au
BY α -PARTICLES OF ^{238}Pu

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S u m m a r y

By the timing (αe)-coincidence method, we study the low-energy spectrum of electrons arising from the bombardment of an Au target by α -particles of the ^{238}Pu source. The ionization of atoms by charged particles is considered as the shake off of electrons into the continuous spectra at their sudden perturbation by passing particles. The experimental energy distribution of emitted electrons well agrees with the theoretical one, which confirms the validity of the consideration of the ionization as a result of the shake off process.