

SHAKE-OFF FOR CONDUCTIVITY ELECTRONS  
IN METALS CAUSED BY NUCLEAR DECAY

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S u m m a r y

We have analyzed the emission of conduction electrons from metals caused by the sudden alteration of a nuclear charge as a consequence of any nuclear decay. The refraction of the electron wave at the crystal surface is taken into account. It is shown that the energy distribution of ejected shake-off electrons contains a peak at an energy of the order of 1 eV. The calculated energy spectrum of shake-off electrons is consistent with experimental data.