

FIRST BORN APPROXIMATION
WITH DISTORTED WAVES

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S u m m a r y

On the basis of the three-particle Dodd – Greider's integral equation modified for Coulomb interaction, a method for accounting the Coulomb effects in the reaction of one-electron charge-exchange is elaborated. Reaction amplitude is derived as the first member of the iteration row that represents a solution of the Dodd – Greider equation for a quantum-mechanical operator for three-particle scattering with redistribution. In the framework of the one-step scattering approximation, the offered method leads to the so-called Coulomb – Born approximation, in which asymptotic motion of particles in the income and outgoing channels of the recharge reaction is described by two-particle Coulomb wave functions of the continuous spectrum.