**DESCRIPTION OF CHARGE-EXCHANGE REACTIONS IN TIME-DEPENDENT 2D MODEL**

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The experimental data on the charge-exchange reactions 45Sc(3He,t)45Ti, 194Pt(3He,t)194Au [1, 2] requires development of microscopic models of such processes. The microscopic approach based on the time-dependent Schrödinger equation for the wave function of the independent nucleons [3] does not take into account proton-neutron interaction and correlations. Simultaneous transfer of a proton from the projectile nucleus to the target nucleus and transfer of a neutron in the backward direction is studied using quantum two-body two-dimensional (2D) time-dependent model [4].

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