

MULTICENTER EIKONAL APPROXIMATION
IN REARRANGEMENT REACTIONS

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S u m m a r y

Formulae describing the single-nucleon-transfer reactions taking into account the many-nucleon structure of nuclei have been obtained in the framework of the distorted-wave approximation using the wave functions of the relative motion of particles in the eikonal approximation. The calculations of the angular distribution of deuterons in the ${}^4\text{He}(p,d){}^3\text{He}$ reaction at $E_p = 770$ MeV point to a certain role of multiple scattering effects and a large sensitivity of the observable characteristics to the details of the nuclear structure.