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Two-body electrodisintegration of ^4He with antisymmetrized molecular dynamics

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Abstract :

Proton knock-out process from the ^4He nucleus using high-energy electrons is investigated. The wave functions of the systems are constructed in the antisymmetrized molecular dynamics approach. Final-state interactions are included using the Glauber multiple scattering approximation. Non-relativistic nuclear one-body charge and current operators are employed to calculate the nuclear transition amplitude. It is found that the antisymmetrized molecular dynamics approach generates a very good approximation to experimental data for the ^4He nucleus.

Award :

No

Paper :

Yes

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