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Two-body electrodisintegration of ${}^4\text{He}$ with antisymmetrized molecular dynamics

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Abstract content **
 **(Max 300 words)

Proton knock-out process from the ${}^4\text{He}$ 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 ${}^4\text{He}$ nucleus.

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No

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Yes

Primary author: Prof. RAMPHO, Gaotsiwe Joel (University of South Africa)**Co-authors:** Prof. ORYU, Shinshu (Tokyo University of Science); Prof. SOFIANOS, Sofianos A. (University of South Africa)**Presenter:** Prof. RAMPHO, Gaotsiwe Joel (University of South Africa)**Session Classification:** Theoretical**Track Classification:** Track G - Theoretical and Computational Physics