

Abstract Submitted
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Effect of Charge Distribution in Out-of-Plane Structure for Excitation-Ionization Collisions A.L. HARRIS, T.P. ESPOSITO, Illinois State University — We present fully differential cross sections (FDCS) for electron-impact excitation-ionization of helium when the ionized electron is found outside of the scattering plane. Using our 4-Body Distorted Wave and First Born Approximation models, we show that the shape of the FDCS is largely due to the charge distribution of the He⁺ ion in the final state. We also examine the effects of electron correlation in the target helium atom, and the effects of the projectile interactions with the target.

Allison Harris
Illinois State University

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