

Abstract Submitted
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Ionization of Molecular Hydrogen by Low-Energy Electron Impact ALIAN AQUINO, LOUIS ROMERO, J.G. CHILDERS, California State University Fullerton — Doubly-differential cross sections for the ionization of H₂ by low-energy electron impact have been measured at incident energies ranging from 17.6 eV to 40 eV and scattering angles of 20° to 120°. The calibration of the electron analyzer during these measurements employed the recent doubly-differential cross section measurements of helium.¹ Comparisons will be made to recent theoretical calculations.

¹E. Schow, K. Hazlett, J. G. Childers, C. Medina, G. Vitug, I. Bray, D. V. Fursa, and M. A. Khakoo, *Phys. Rev. A* **72**, 062717 (2005).

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