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Electron Impact Ionization of Helium ERIC SCHOW, KEN HAZLETT, CRISTINA MEDINA, GIL VITUG, J.G. CHILDERS, MURTADHA A. KHAKOO, California State University, Fullerton, CA 92834, USA — Recently completed measurements of the absolute doubly-differential cross sections for the electron impact ionization of helium at low incident energies will be presented. The measurements were taken using the moveable nozzle technique. Data were taken at incident energies of 26 eV, 28 eV, 30 eV, 32 eV, 34 eV, 36 eV, and 40 eV. The results are compared to the theoretical convergent close-coupling calculations of Bray et al. and good agreement is observed. This work is funded by the National Science Foundation under grant # NSF-RUI-PHY-0096808.

<sup>1</sup>M. Hughes, K. E. James, Jr., J.G.Childers, and M.A. Khakoo, *Meas. Sci. Technol.* **14**, 841 (2003)

<sup>2</sup>Igor Bray, Dmitry V. Fursa, and Andris T.Stelbovics J. Phys. B **36**, 2211 (2003)

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