

Abstract Submitted
for the DAMOP18 Meeting of
The American Physical Society

Elastic Scattering of Low Energy Electrons from Acetonitrile (CH_3CN).¹ MATEUSZ ZAWADZKI, MURTADHA KHAKOO, California State University — Experimental differential cross sections for low energy electron scattering from acetonitrile, using the relative flow technique with helium [1], will be presented. The cross sections were taken at incident energies of 0.5 eV to 30 eV for scattering angles of 10° to 130° using a moveable aperture gas target source[1]. The results will be compared to the existing Schwinger multi-channel calculations of Maioli and Bettega [2]. [1] M. A. Khakoo, K. Keane, C. Campbell, N. Guzman and K. Hazlett, *J. Phys. B: At. Mol. Opt. Phys.* **40** 3601 (2007). [2] S. Maioli and M. H. F. Bettega, *Eur. Phys. J. D.* **71**, 322 (2017).

¹Funded by National Science Foundation Grant : RUI 1606905

Murtadha Khakoo
California State University

Date submitted: 22 Jan 2018

Electronic form version 1.4