Abstract Submitted
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Low Energy Elastic Electron Scattering from Benzonitrile - C_6H_5CN[1] M ZAWADZKI, Gdansk University of Technology, Gdansk, Poland, G TATREAU, B DIAZ, B HLOUSEK, M. A. KHAKOO, California State University, Fullerton — Experimental differential cross sections for electron scattering from gaseous C_6H_5CN are presented. The measurements were taken with a high resolution electron spectrometer and used the relative flow method with a moveable (aperture) target gas delivery source [1]. Helium gas was used as standard, with established cross sections from [2,3]. The moveable source enabled accurate determinations of background scattering [1] and the measurements were taken at incident electron energies of 1 eV to 30 eV for scattering angles of 10^o to 130^o. Comparisons to existing cross sections will be made. [1] M. A. Khakoo *et al.*, J. Phys.B. **40**, 3601 (2007). [2] R. K. Nesbet, Phys. Rev. A **20**, 58 (1979). [3] D. F. Register et al. Phys. Rev. A **21**, 1134 (1980).

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