

Abstract Submitted  
for the DAMOP08 Meeting of  
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**Elastic electron scattering from water**<sup>1</sup> JOHN MUSE, California State University Fullerton, HELEN SILVA, MARIA CRISTINA LOPES, U. Juiz de Fora, Minas Gerais, Brazil, MURTADHA A. KHAKOO, California State University Fullerton — Accurate measurements of differential cross-sections for elastic electron scattering from water will be presented. The data were taken using a modified form of the relative flow method with an aperture gas source replacing conventional tube source [1]. In addition the source was moveable [2] to accurately determine the background scattering. Data were taken at incident energies of 1eV to 100eV and scattering angles of 10 to 130 deg. The results show that present recommended cross-sections for water should be changed. [1] M. A. Khakoo et al., Journal of Physics B, 40, 3601 (2007). [2] M. Hughes et al., Meas. Sci. Technol. 14, 841 (2003).

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Murtadha A. Khakoo  
California State University Fullerton

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