## Abstract Submitted for the DAMOP08 Meeting of The American Physical Society

Low Energy Elastic Electron Scattering from Molecular Targets<sup>1</sup> MURTADHA A. KHAKOO, JOHN MUSE<sup>2</sup>, California State University Fullerton, USA, HELEN SILVA, CRISTINA LOPES, U. Juiz de Fora, Brazil, B. VIN-CENT MCKOY, California Institute of Technology, USA, CARL WINSTEAD, MARCO A.P. LIMA, Unicamp, Campinas, Brazil, MARCIO BETTEGA, Universidade Federal do Parana, Parana, Brazil, CALIFORNIA STATE UNIVERSITY, FULLERTON, USA COLLABORATION, U. JUIZ DE FORA, MINAS GERAIS, BRAZIL COLLABORATION, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA, USA COLLABORATION, UNICAMP, CAMPINAS, BRAZIL COLLABORATION, U. FEDERAL DO PARANA, PARANA, BRAZIL COLLAB-ORATION — An overview of recent activity between Cal State and Juiz de Fora (Expt) and CalTech and Campinas and U. F. Parana (Theory) regarding elastic electron scattering from Methanol, Ethanol, Butanol and Propanol and Water, Molecular Hydrogen and Molecular Nitrogen will be presented. The experimental data (using an aperture source of gas) were taken at energies of 1eV up to 100eV and the theory is the Multichannel Schwinger with Polarization effects included. In most cases agreement between theory and experiment is very good, considering these are large calculations.

 $^1\mathrm{Funded}$  by a USA-NSF Collaborative Grant and by Brazil CNPq and CAPES Grants

<sup>2</sup>Undergraduate student

Murtadha A. Khakoo California State University Fullerton

Date submitted: 08 Feb 2008 Electronic form version 1.4