

Abstract Submitted  
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**Electronic excitation of methanol by low-energy electrons** LEIGH HARGREAVES, KEN VARELA, MURTADHA KHAKOO, California State University Fullerton, CARL WINSTEAD, VINCE MCKOY, California Institute of Technology — Differential and integral excitation cross section measurements for the 4 lowest-lying states of states for methanol will be presented, at electron energies between 9 – 20eV. The data were obtained via electron-energy loss spectroscopy, incorporating a moveable aperture gas source, and applying a least squares data fitting routine to each spectra that separated overlapping contributions from discrete transitions. The results are compared with current theoretical calculations, as well as previously obtained data for water and preliminary results for excitation of ethanol.

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