

Abstract Submitted  
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**Triple differential cross section for electron impact ionization of molecules – Pyrimidine ( $C_4H_4N_2$ ), Tetrahydrofurfuryl alcohol ( $C_5H_{10}O_2$ ) and Tetrahydropyran ( $C_5H_{10}O$ )<sup>1</sup>** HARI CHALUVADI, DON MADISON, Missouri University of Science and Technology, J.D. BUILTH - WILLIAMS, S.M. BELLM, D.B. JONES, M.J. BRUNGER, ARC Centre of Excellence for Antimatter-Matter Studies, C.G. NING, Tsinghua University, B. LOHMANN, University of the Sunshine Coast, JAMES COLGAN, Los Alamos National Laboratory — Cross-section data for electron impact induced ionization of bio-molecules are important for modeling the deposition of energy within a biological medium and also for gaining knowledge of electron driven processes at the molecular level. Triply differential cross sections have been measured for the electron impact ionization of HOMO ( $7b_2$ ) and  $10a_1$  orbitals of Pyrimidine, HOMO ( $28a$ ) orbital of tetrahydrofurfuryl alcohol, and HOMO ( $15AA$ ) orbital Tetrahydropyran by using the  $(e, 2e)$  technique. The experimental measurements will be compared with theoretical M3DW (molecular 3-body distorted wave) model calculations.

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