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Low energy electron-impact ionization of CF4.[1] ESAM ALI, Missouri Univ of Sci Tech, KHOKON HOSSEN, ENLIANG WANG, XUEGUANG REN, Max-Planck-Institute for Kernphysik, Heidelberg, Germany, CHUANGANG NING, Department of Physics and State Key Laboratory of Low-Dimensional Quantum Physics, Tsinghua University, Beijing, Peoples Republic of China, ALEXANDER DORN, Max-Planck-Institute for Kernphysik, Heidelberg, Germany, DON MADISON, Missouri Univ of Sci Tech — Experimental and theoretical triple differential cross section results will be presented for 66 eV electron-impact ionization of CF4 for the three unresolved outermost orbitals - the highest, next highest, and next-next highest occupied molecular orbitals (HOMO, NHOMO, and HOMO-2). The theoretical results will be compared with experiment for in plane scattering and full perpendicular plane scattering with projectile scattering angles of 8^o, 10^o, 12^o, 15^o, and 20^o at ejected electron energies of 3, 5, 8, and 10 eV. Comparisons will be made with theoretical M3DW (molecular 3-body distorted wave) model calculations.

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