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Electron impact elastic scattering and vibrational excitation of ethylene[1] MURTADHA KHAKOO, SABAHA KHAKOO, AHMAD SAKAAMINI, LEIGH HARGREAVES, Cal State Univ- Fullerton, CARL WINSTEAD, VINCE MCKOY, Caltech — Experimental and theoretical (Schwinger Multi-Channel model) differential scattering cross sections for low energy electron elastic scattering plus vibrational excitation (4 energy loss features) of ethylene are presented. The incident electron energy range is from 0.5eV to 100eV and scattering angles of 5 to 130 degrees. Comparisons with theory and past available measurements show good agreement in general.

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