

Electron energy loss spectra of 1,4-pentadiene

Reference: Knut R. Asmis, Dunja M. Frey and Michael Allan, Université de Fribourg (unpublished).

Dunja M. Frey, diploma thesis, Fribourg 1994

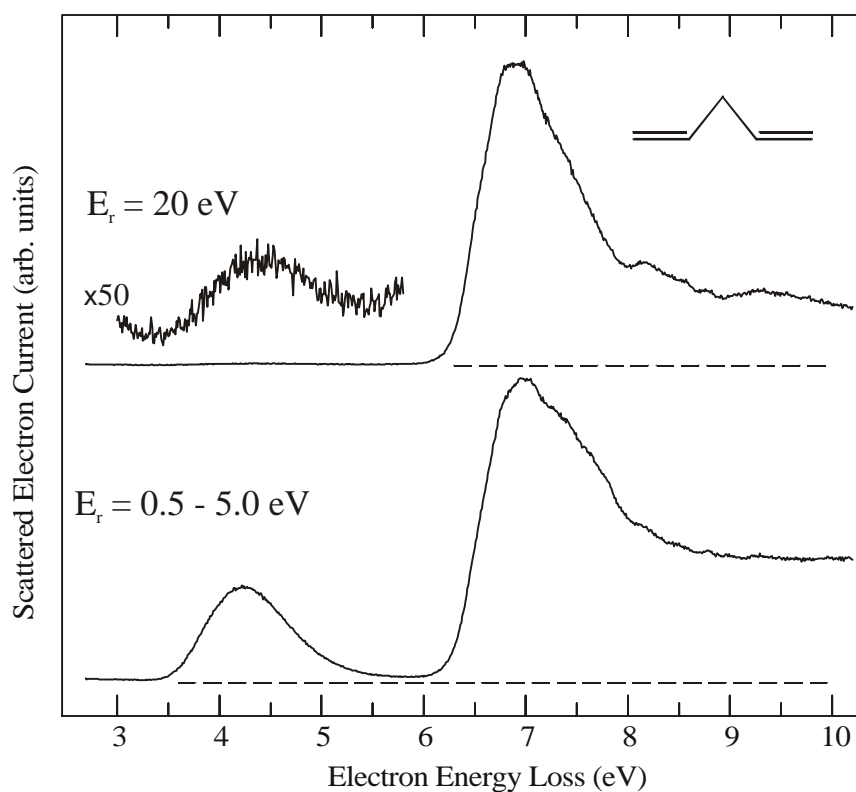


Fig. 1 Spectra representative of dipole-allowed (top) and spin-forbidden transitions (bottom). The lowest triplet band is due to two overlapping transitions. The triplet states are seen weakly even in the upper spectrum. The lower spectrum is a sum of spectra recorded with residual energies of 0.5, 1.0, 2.5, and 5.0 eV.

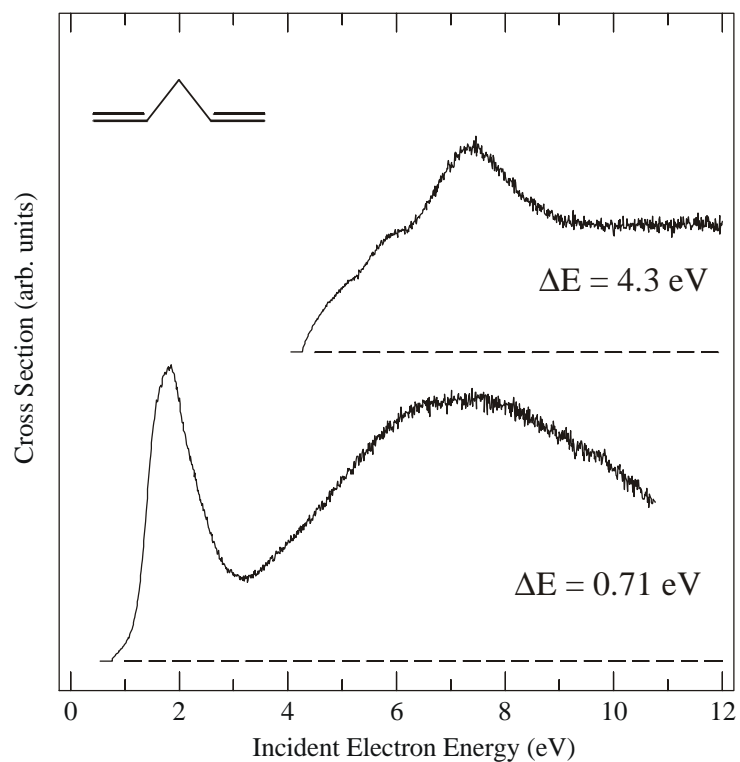


Fig. 1 Representative excitation functions for vibrational excitation (bottom) and the excitation of the lowest triplet band (top). (The lowest triplet band is due to two overlapping transitions.) The two π^* shape resonances overlap and form a single band at 1.79 eV. A very broad σ^* shape resonance peaks at 6.6 eV. The upper curve shows core-excited resonances.