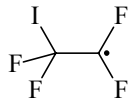
176 **C_2F_4I** **1,1,2,2-Tetrafluoro-2-iodoethyl** **C_s**

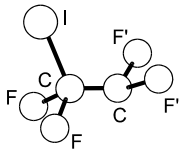
UED

r [a])	Å [b])
C–I	2.153(13)
C–F	1.340(37)
C–C	1.478(49)
C–F'	1.277(27)

θ [a])	deg [b])
C–C–I	115.0(31)
C–C–F	108.6(60)
C–C–F'	117.9(31)
F–C–F/2	54.0(56)
F'–C–F'/2	59.9(39)



The structure of the transient intermediate radical, C_2F_4I, in the nonconcerted elimination reaction of $C_2F_4I_2$ to give C_2F_4 and I_2 was determined using an electron pulse source of 1.07(27) ps. It was found to be a nonbridging (classical) species. The parameters are listed for the *anti* conformer. See [1] for the ground state structure of the parent molecule $C_2F_4I_2$, which differs significantly from that listed above. The time constants for formation and depletion of C_2F_4I, from $C_2F_4I_2$ and to C_2F_4, were estimated from the changes in the signal intensities to be < 5 and 26(7) ps, respectively.
The effective temperature was estimated to be 800 K.



[a]) Unidentified, probably r_a and θ_a.
[b]) Uncertainties were unidentified, probably estimated standard errors.

Ihee, H., Lobastov, V.A., Gomez, U.M., Goodson, B.M., Srinivasan, R., Ruan, C.-Y., Zewail, A.H.: Science **291** (2001) 458.
[1] Thomassen, H., Samdal, S., Hedberg, K.: J. Am. Chem. Soc. **114** (1992) 2810.