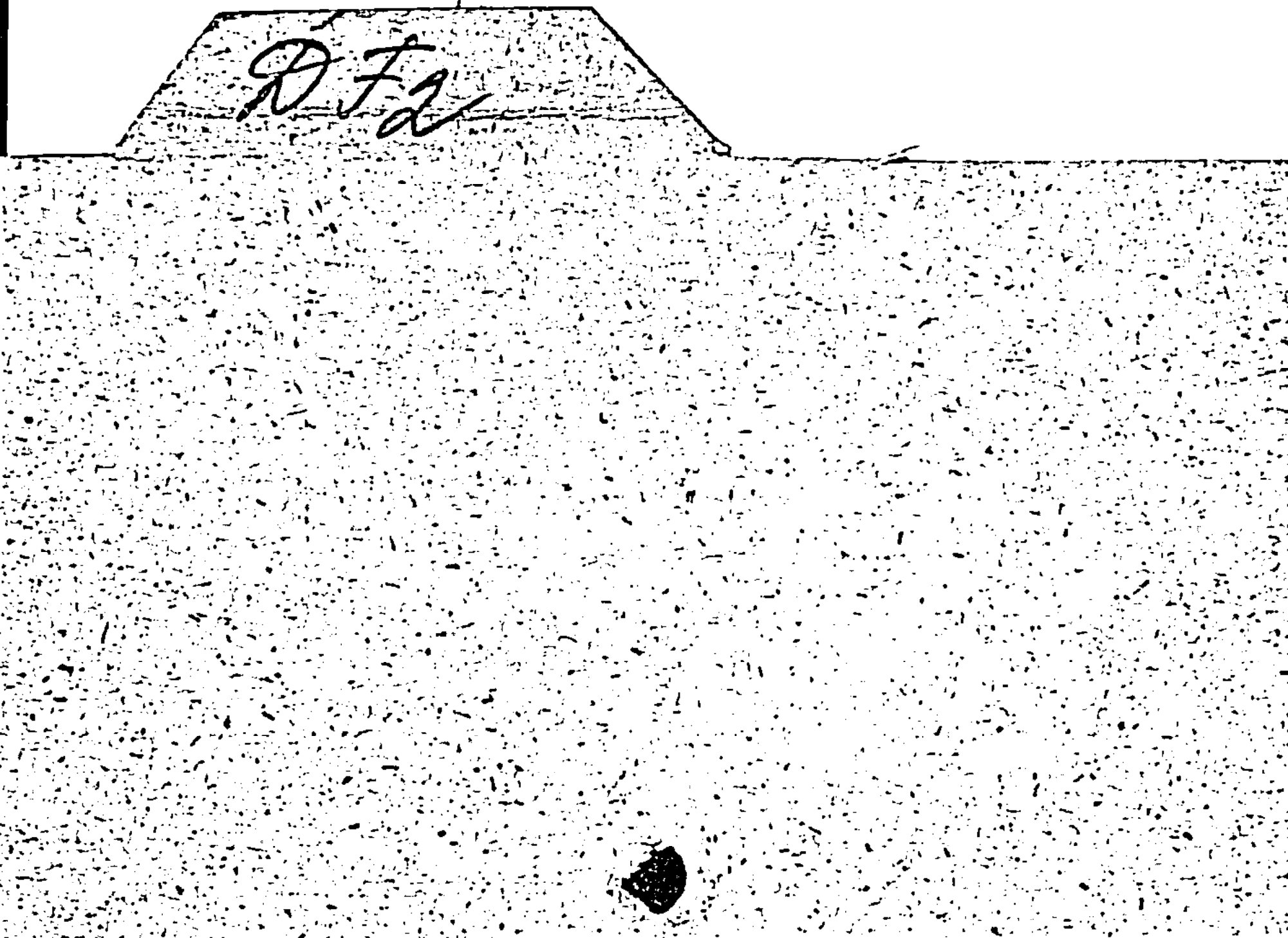
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123: 68892f **Infrared diode laser spectroscopy of FDF^-.** Kawaguchi, Kentarou; Hirota, Eizi (Institute for Molecular Science, Okazaki, Japan 444). *J. Mol. Struct.* **1995**, 352/353, 389–94 (Eng). The gas-phase vibration-rotation spectrum of FDF^- was obsd. in the 930 and 1460 cm^{-1} regions with a tunable diode laser spectrometer. The obsd. bands in the 930 cm^{-1} region were assigned to the ν_3 antisym. stretching and the ν_2 bending modes. The 1460 cm^{-1} region was assigned to the $\nu_1+\nu_3$ combination band. The previous assignment of the 1397 cm^{-1} band was cor. to the $2\nu_1+\nu_3-\nu_1$ band. All obsd. transitions were analyzed simultaneously by including a Coriolis interaction between the ν_2 and ν_3 states to det. mol. consts. in the ground as well as ν_2, ν_3, $\nu_1+\nu_3$, $2\nu_1+\nu_3$, and ν_1 states. The fundamental frequencies were detd. to be ν_2 = 928.7303(17) cm^{-1} and ν_3 = 934.1933(7) cm^{-1}, with three std. deviations in parentheses. From the rotational consts. obtained, the equil. F–F internuclear distance was calcd. to be 2.277 52(10) Å, which agreed with the value (2.277 71(9) Å) of FHF^- reported previously.

кол.-вр. спектр, Di, вращат. пост., Re

C.A. 1995, 123, N6