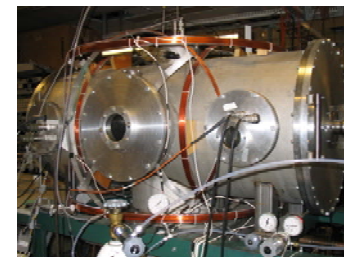


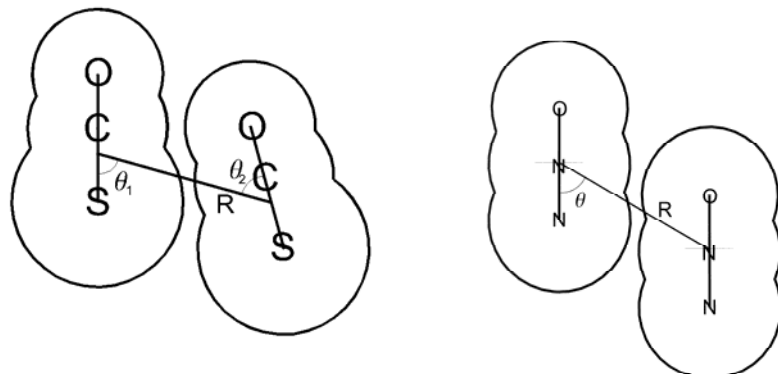
Fluorinated Radicals and Interstellar Molecules

Stewart Novick

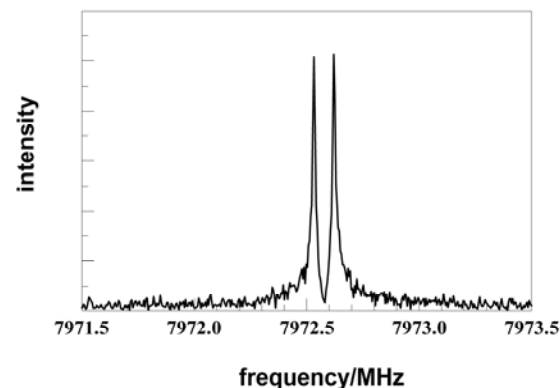
Wesleyan University



Using the sensitive and powerful technique of pulsed-jet Fourier transform microwave spectroscopy we have determined the structures of the high energy polar isomers of OCS dimer and N₂O dimer.

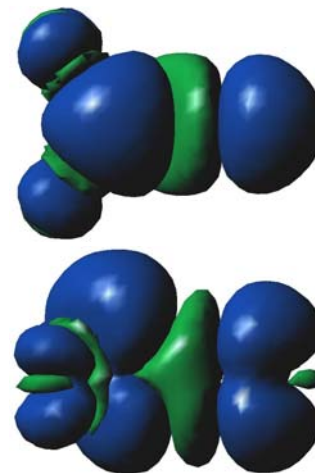
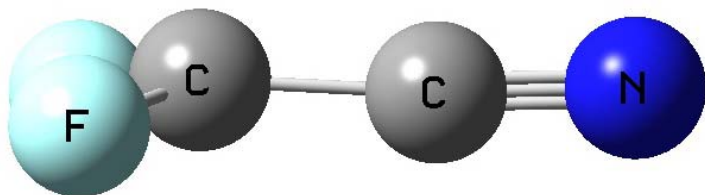


(OCS)₂ single shot
3₁₃ - 2₀₂



We have also determined the structure and electronics of the cyanodifluoromethyl radical

Unlike its isoelectronic analog
F₂CCCH,
F₂CCN is non-planar



spin density map