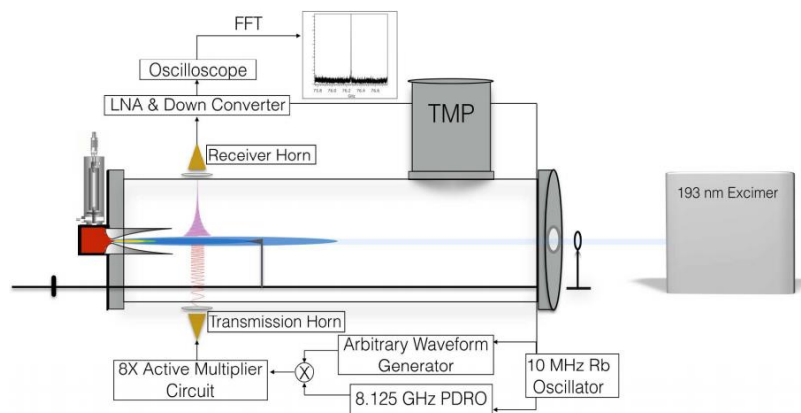


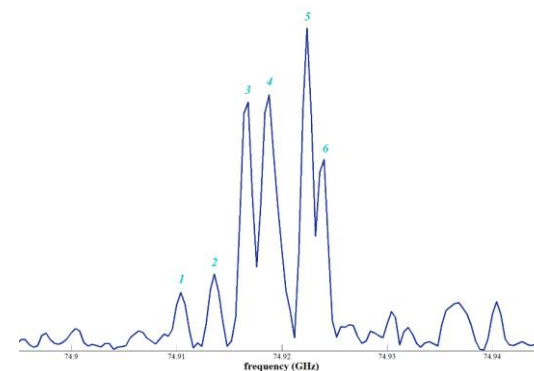
Propargyl + NH₂ reaction dynamics from CPUF rotational spectroscopy

Uniform-flow chirped pulse (CPUF) spectrometer



Recorded rotational spectra

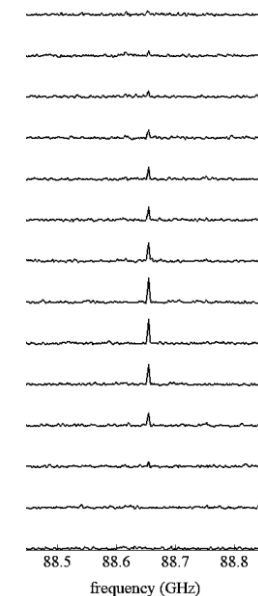
Spin-rotation and spin-spin hyperfine splitting of Propargyl, 4045 - 3034 and 4044 - 3033



1 - 74.9010 GHz, 2 - 74.9132 GHz, 3 - 74.9162 GHz,
4 - 74.9183 GHz, 5 - 74.9220 GHz, 6 - 74.9234 GHz

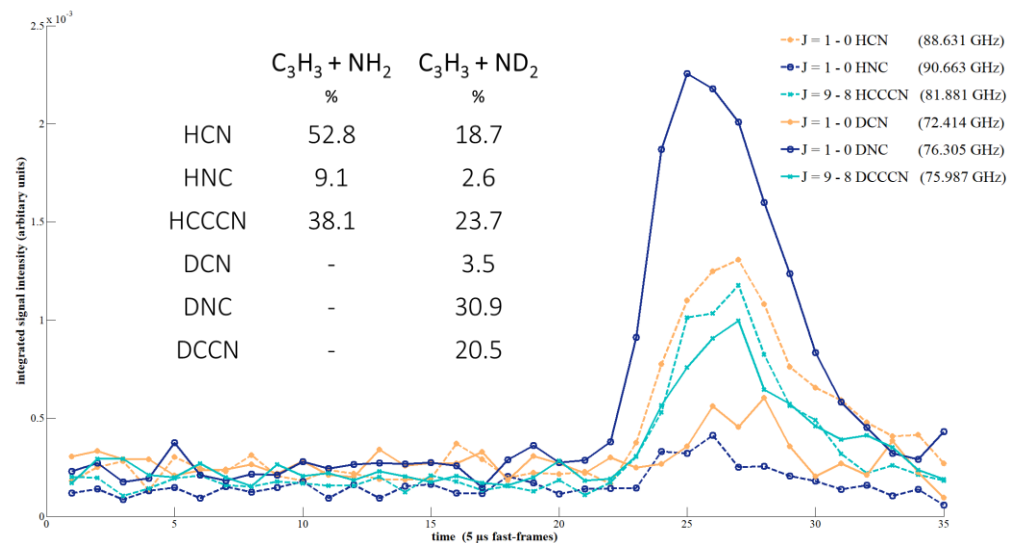
time dependent measurements of

HCN, J = 1 - 0



Experimental branching ratio

at 40 K, 1x10¹⁷ total molecules/cm³



Potential energy surface C₃H₃ + NH₂

