$E_U = 4.18 \text{ K}$ $E_U = 25.08 \text{ K}$ 0.6 0.4 $\log_{10}(A_{i,j}) = -4.73$ $\log_{10}(A_{i,i}) = -3.19$ Brightness temperature [K] 0.4 0.2

 $HN^{13}C$, core, $T_{rot} = 10.0 \text{ K}$, $N_{tot} = 5e + 12 \text{ cm}^{-2}$, $V_{cen} = 41.0 \text{ km s}^{-1}$, $V_{disp} = 1.5 \text{ km s}^{-1}$

