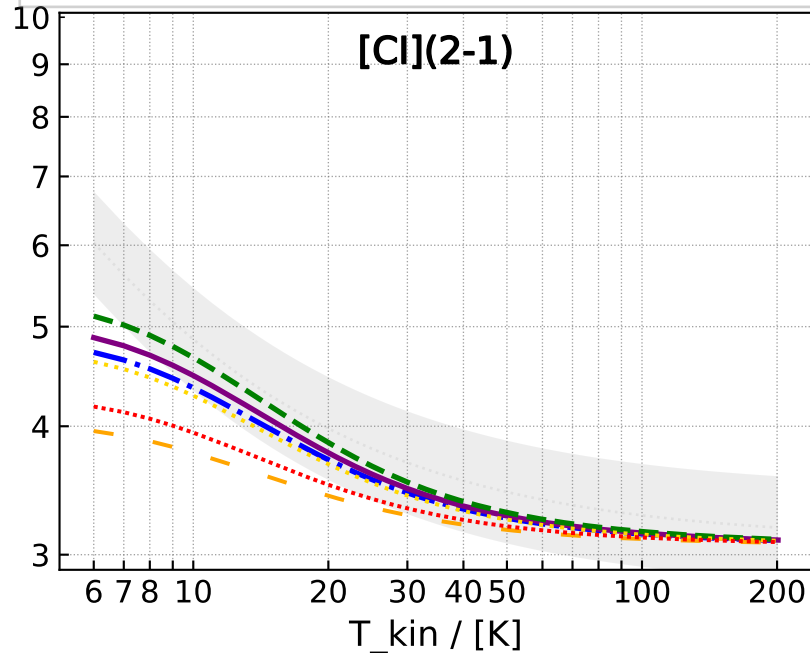
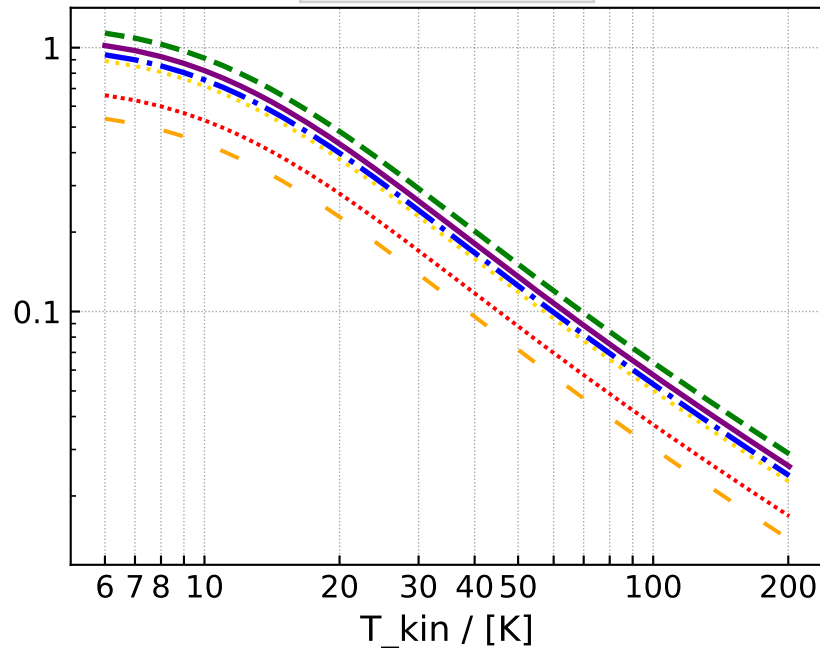


$$\alpha_{\text{CI}(2-1)}^{\text{no Helium}} = 3.06 \times [(\tau_{\text{CI}(2-1)} / (1 - e^{-\tau_{\text{CI}(2-1)}}))] \\ \text{Approx.} = [0.22 (\tau_{\text{kin}} / 80)^{-1.0} + 3.1] \\ \times (3 \times 10^{-4} \times 0.2) / ([\text{Cl}/\text{H}_2])$$

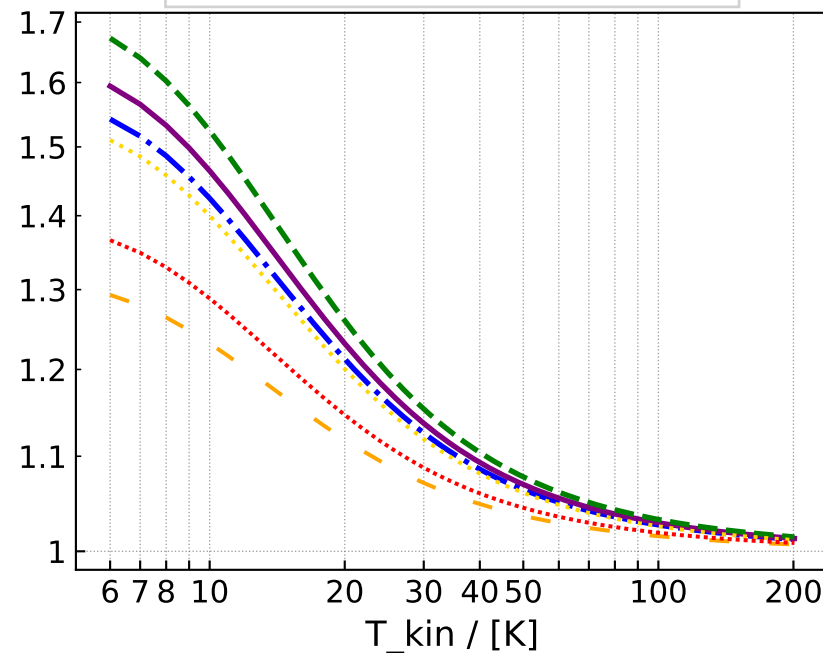
[Cl](2-1)



Coeff.: $\tau_{\text{Cl}(2-1)}$



Coeff.: $\tau_{\text{Cl}(2-1)} / (1 - e^{-\tau_{\text{Cl}(2-1)}})$



- $N_{\text{Cl}}=1.6\text{e}17, \Sigma_{\text{H}_2}=42, \Delta v=4$
— $N_{\text{Cl}}/\Delta v = 4.0\text{e}16$
- $N_{\text{Cl}}=4.3\text{e}17, \Sigma_{\text{H}_2}=115, \Delta v=10$
— $N_{\text{Cl}}/\Delta v = 4.3\text{e}16$
- $N_{\text{Cl}}=9.6\text{e}17, \Sigma_{\text{H}_2}=255, \Delta v=20$
— $N_{\text{Cl}}/\Delta v = 4.8\text{e}16$
- $N_{\text{Cl}}=2.2\text{e}18, \Sigma_{\text{H}_2}=600, \Delta v=60$
— $N_{\text{Cl}}/\Delta v = 3.7\text{e}16$
- $N_{\text{Cl}}=1.1\text{e}18, \Sigma_{\text{H}_2}=303, \Delta v=50$
— $N_{\text{Cl}}/\Delta v = 2.3\text{e}16$
- $N_{\text{Cl}}=2.5\text{e}18, \Sigma_{\text{H}_2}=668, \Delta v=90$
— $N_{\text{Cl}}/\Delta v = 2.8\text{e}16$