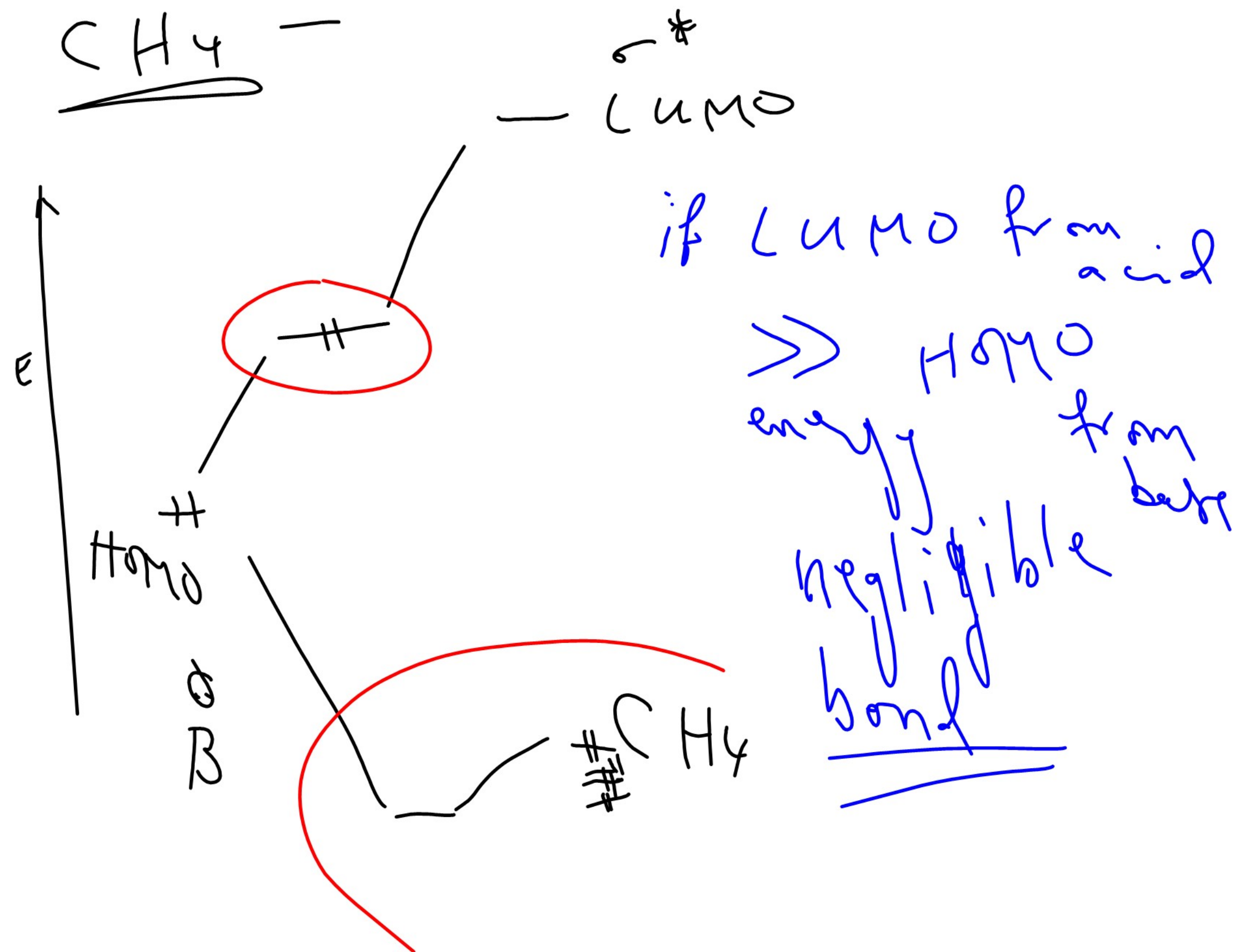




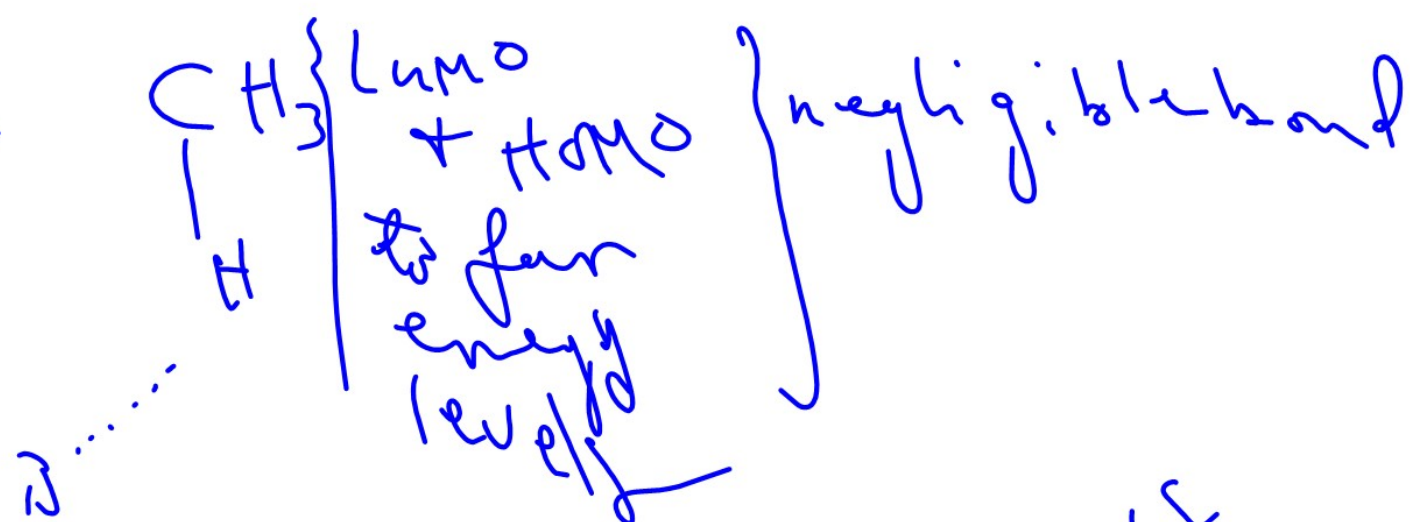
H-bonds

Case ①

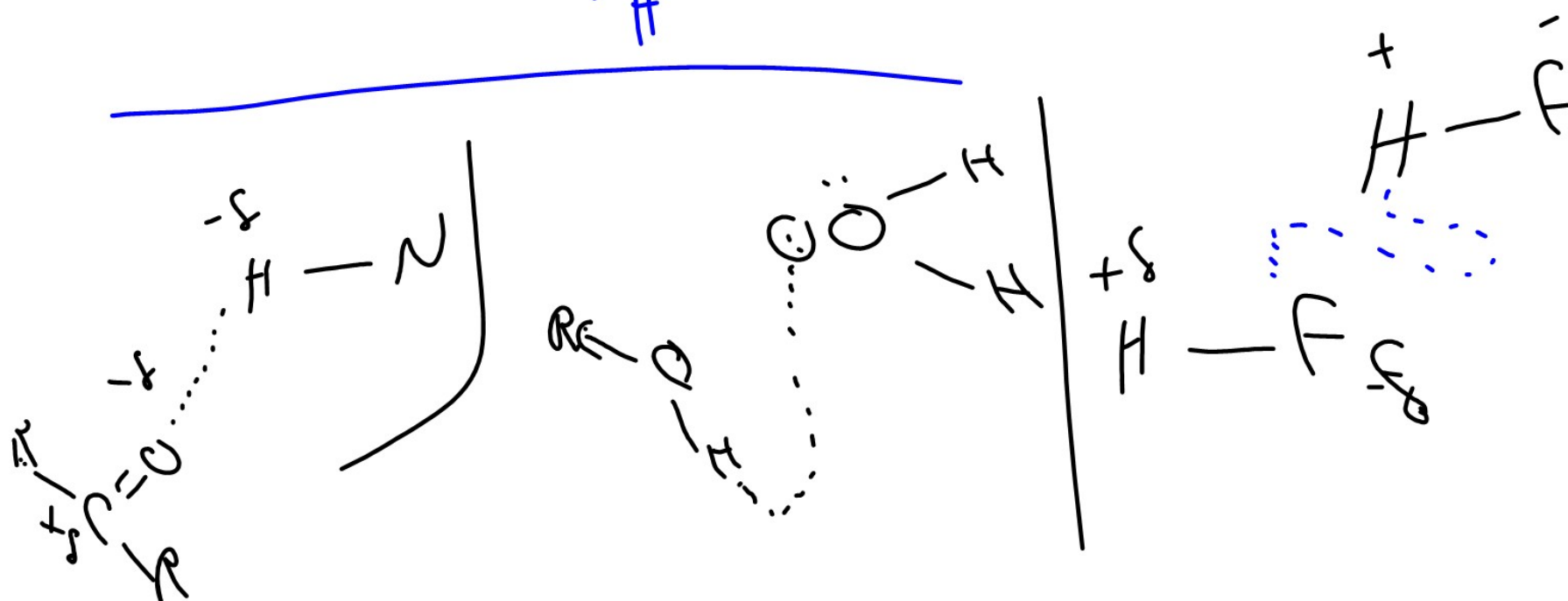
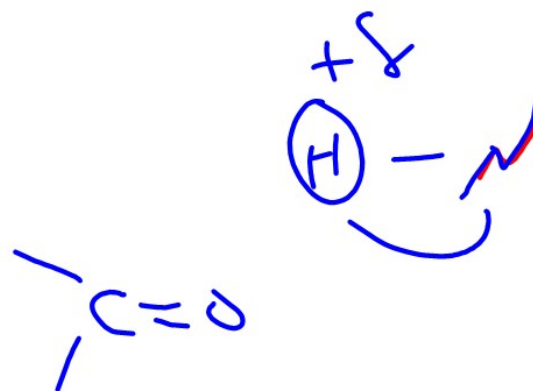
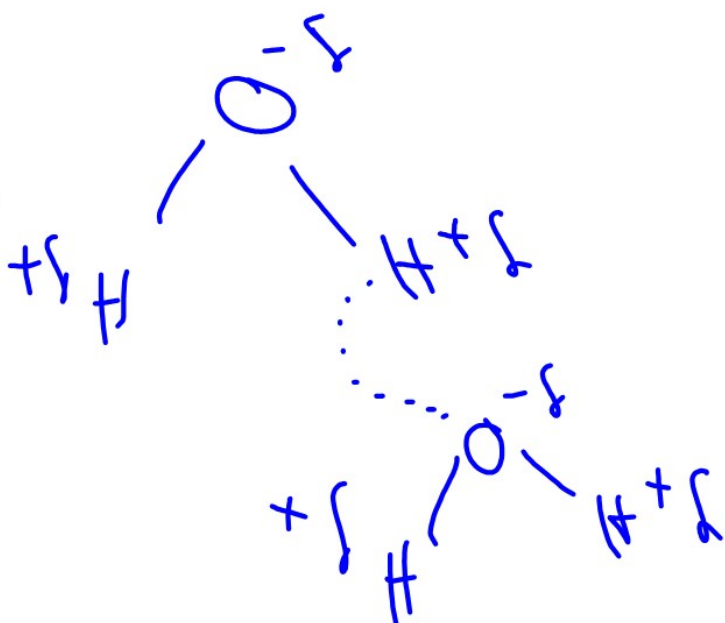


V. strong H-bond
 $\Rightarrow$ cov. bond

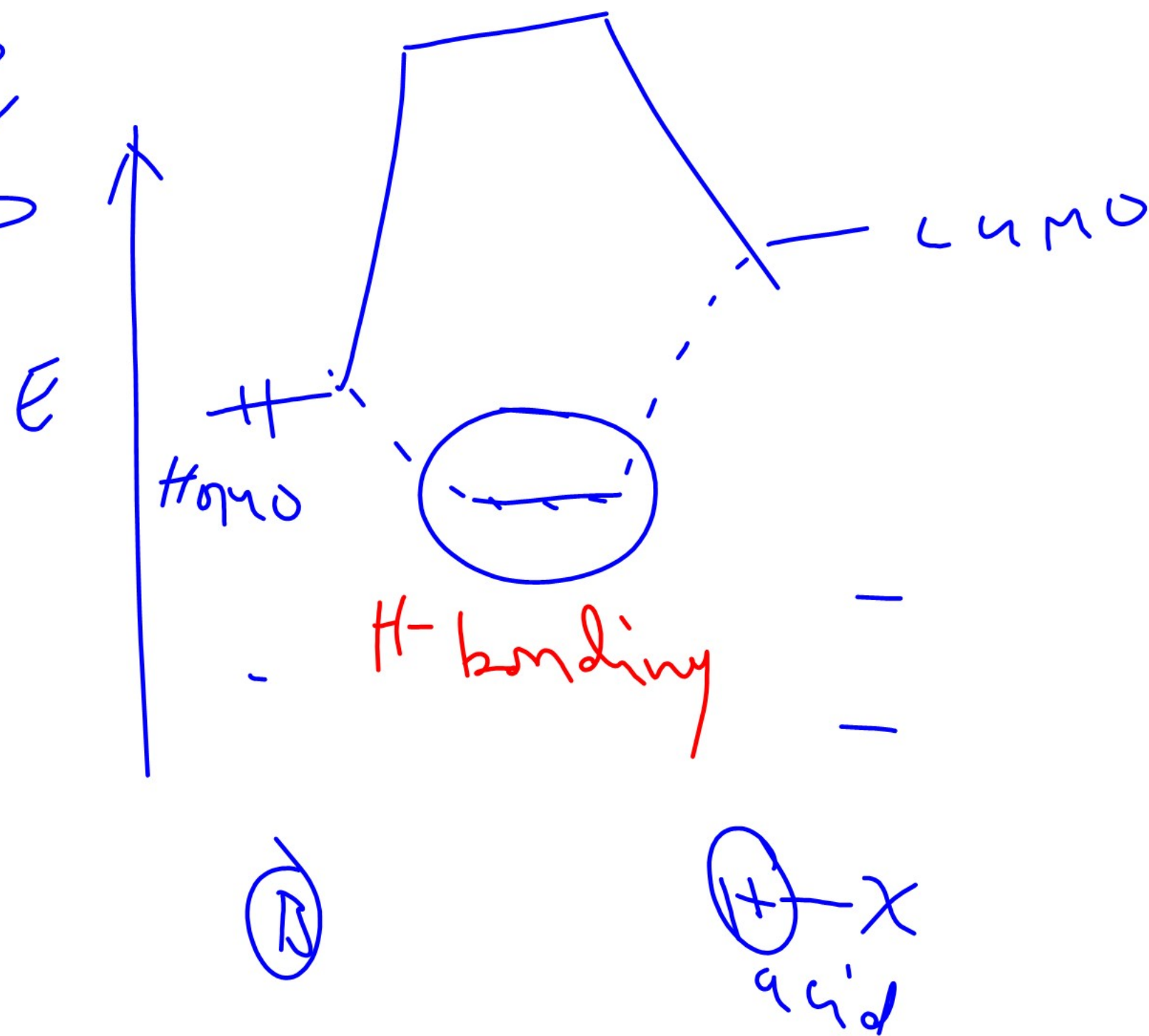
Case ②

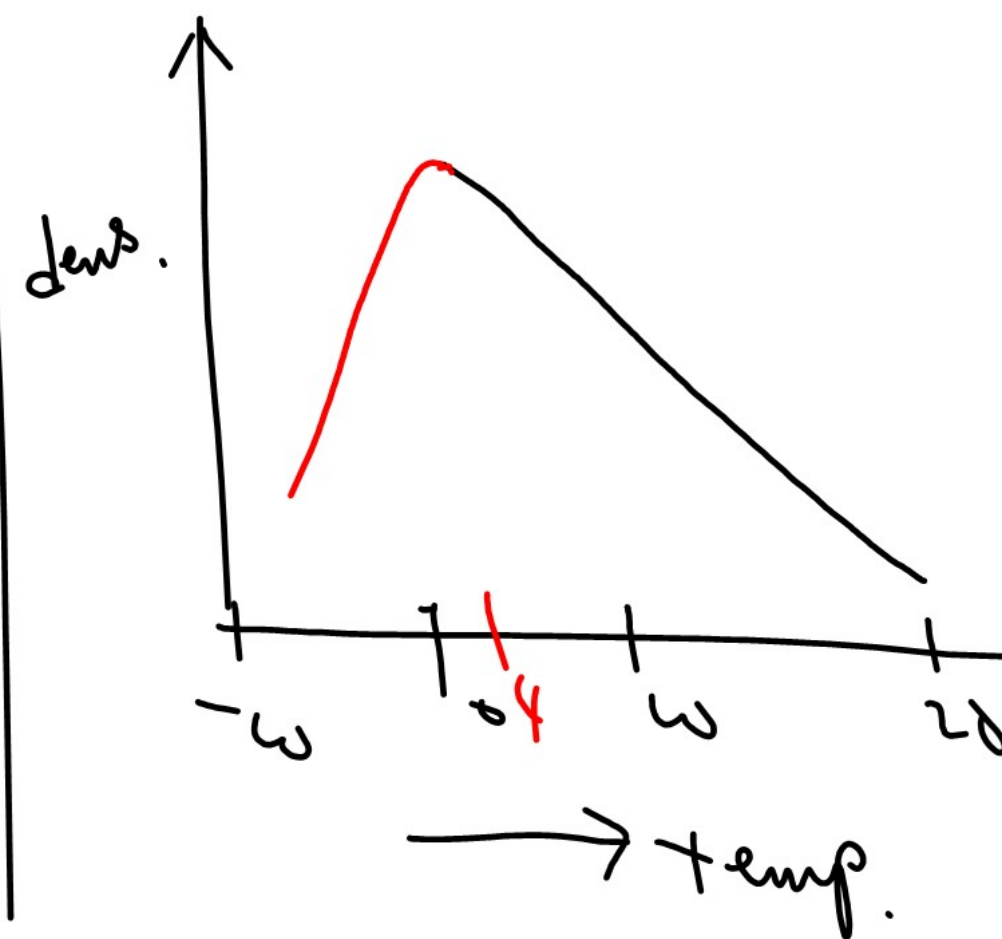
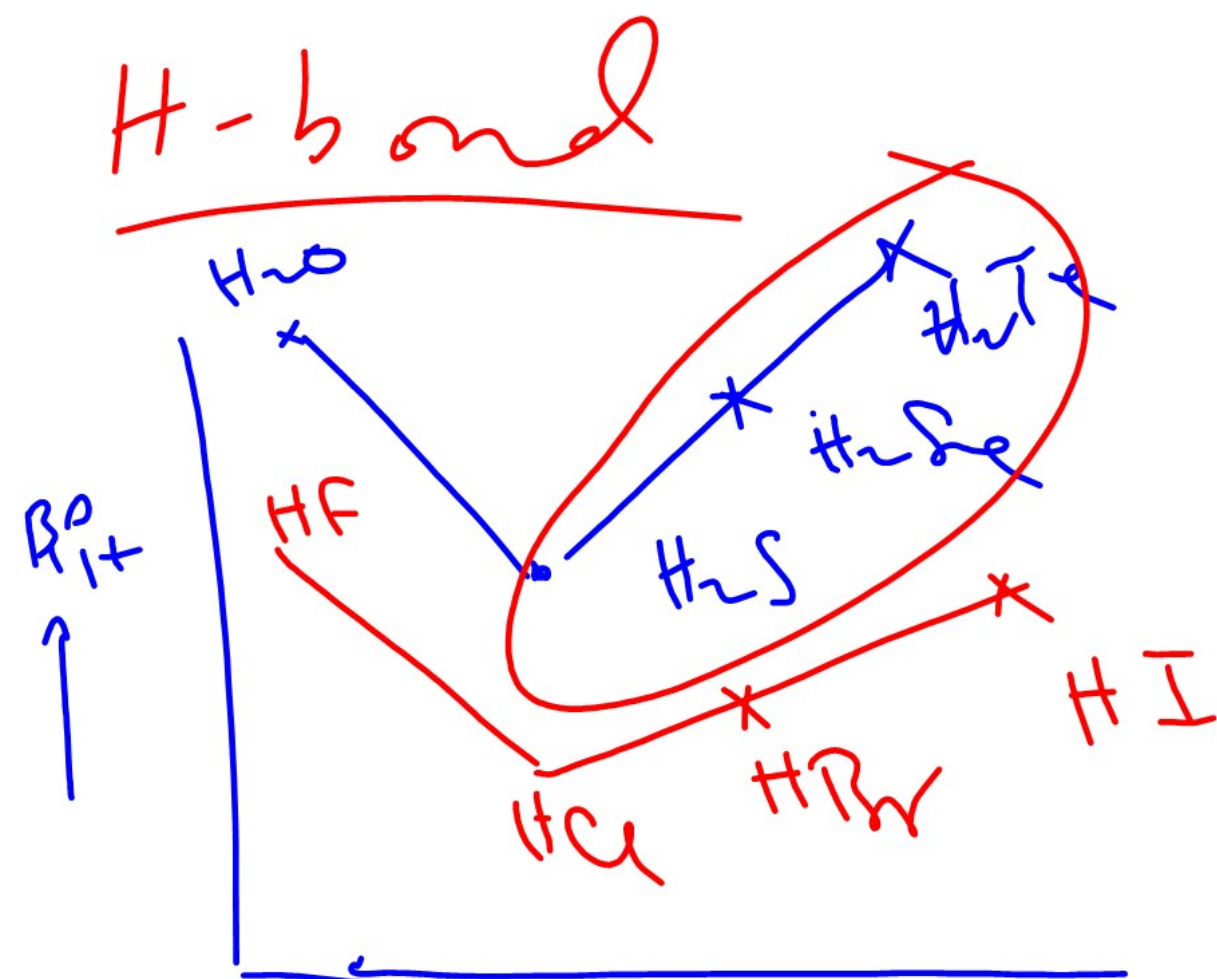


Case 3:



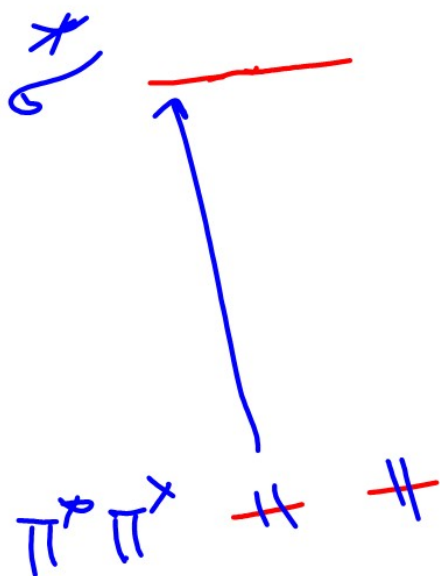
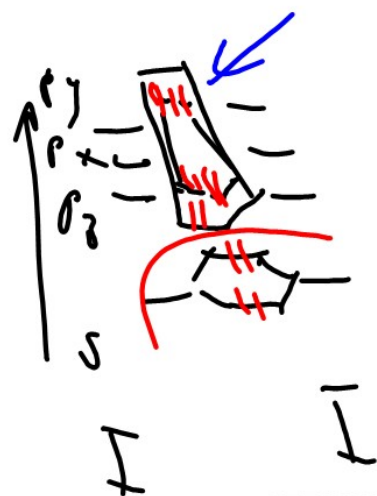
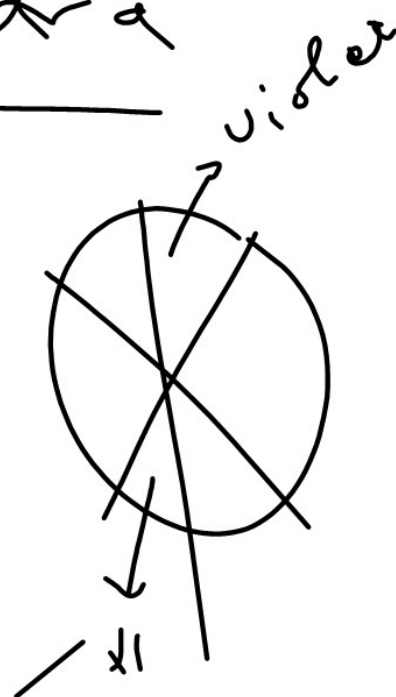
$H-F$, H_2O ,
 NH_3





Electronic Absorption Spectra

I_2 violet color



I_2 violet color

I_2 dissolved in a Lewis basic solvent

σ^* LUMO

violet color

in benzene:

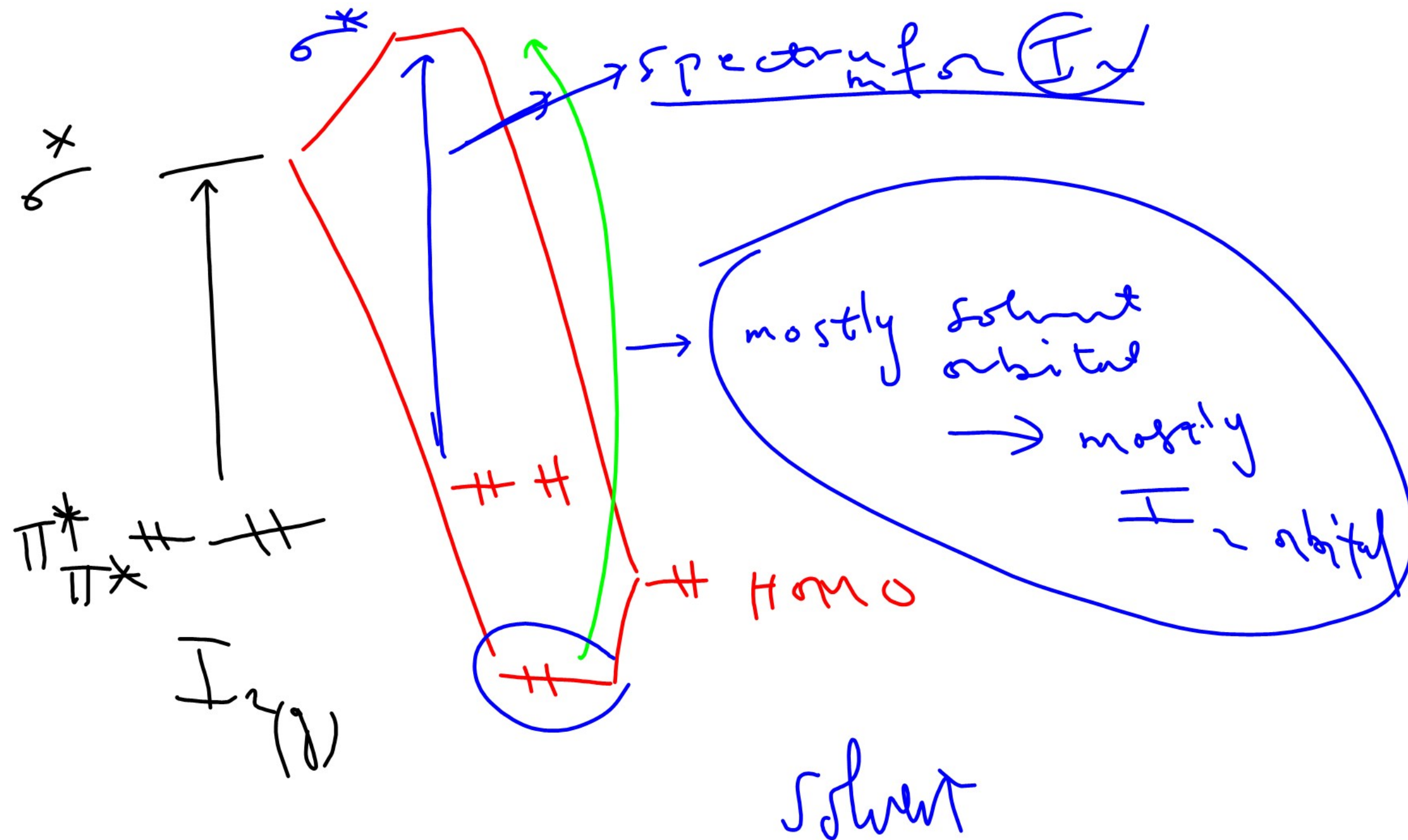
I_2 red

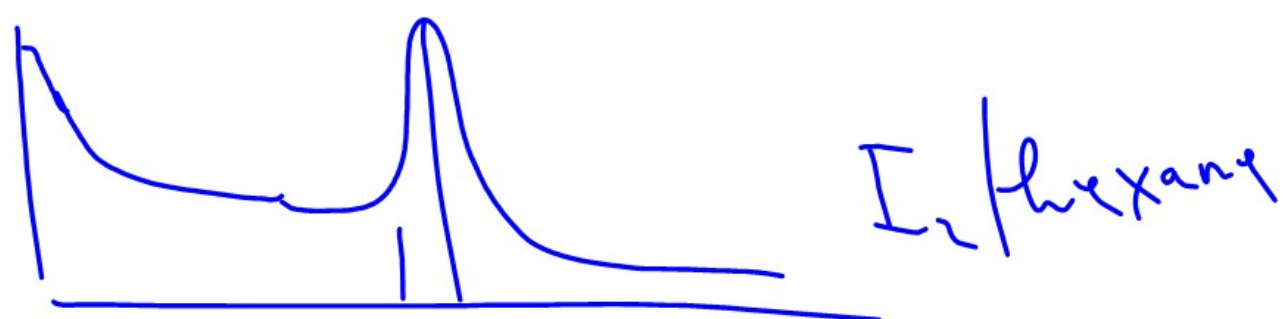
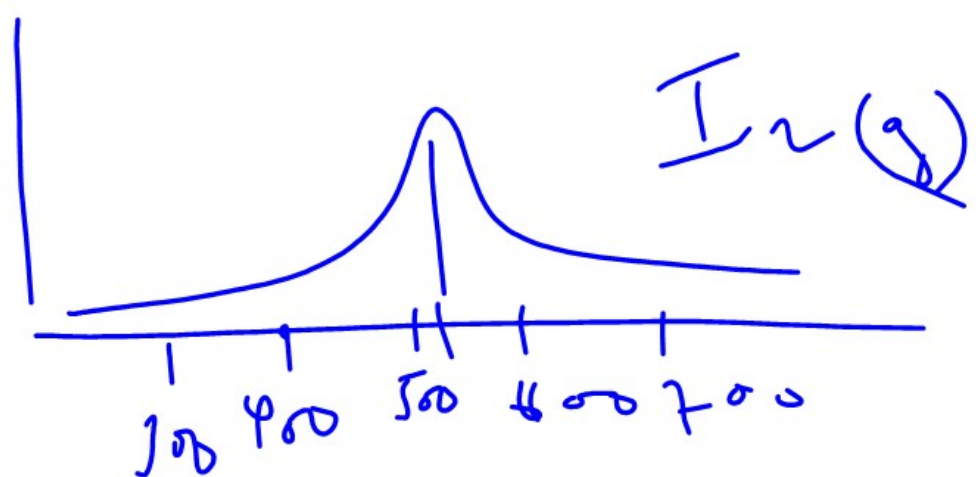


hexane solvent
no effect
on spectra



π HOMO





Solvent $\rightarrow I_2$
Charge transfer
spectra

