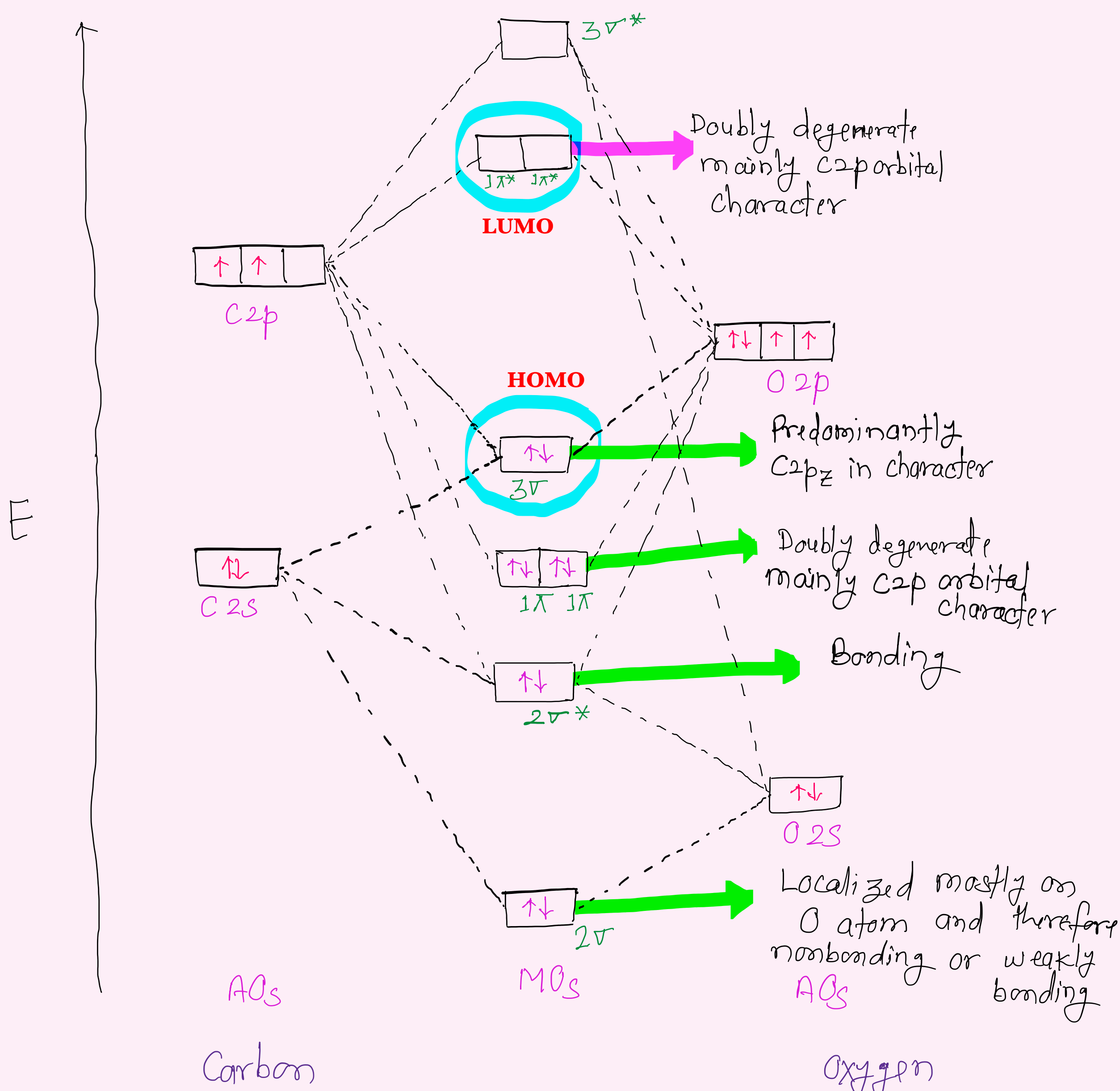


MOLECULAR ORBITAL ENERGY LEVEL DIAGRAM OF CO

Thursday, 14 January 2021

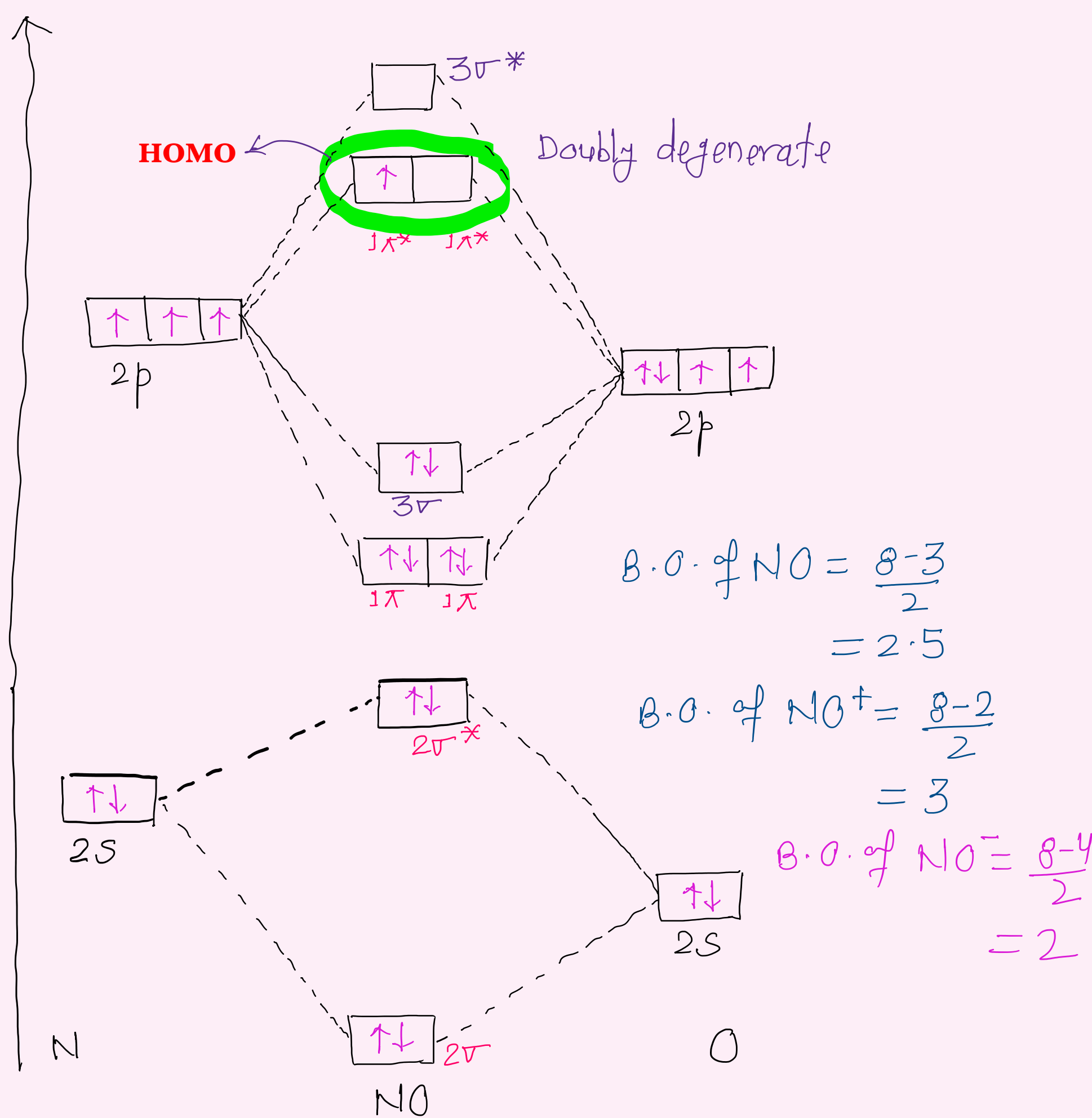
10:49 PM



FMO = Frontier Molecular Orbital

- HOMO: Highest occupied molecular orbital
→ MO that, according to the building-up principle is occupied last.
- LUMO: Lowest unoccupied molecular orbital
MO next to HOMO is called as LUMO
- SOMO: Singly occupied molecular orbital
→ for radical species.

MOLECULAR ORBITAL ENERGY LEVEL DIAGRAM OF NO



NO^+ diamagnetic
 NO & NO^- paramagnetic

Order of B.O.
 $\text{NO}^- > \text{NO} > \text{NO}^+$
3 2.5 2

MOLECULAR ORBITAL ENERGY LEVEL DIAGRAM OF HCl

