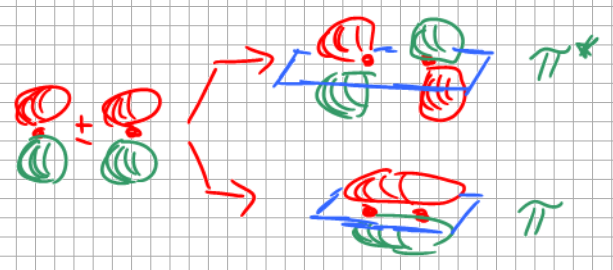


σ, σ^* BONDS:

S ORBITALS, P, sp^x , d

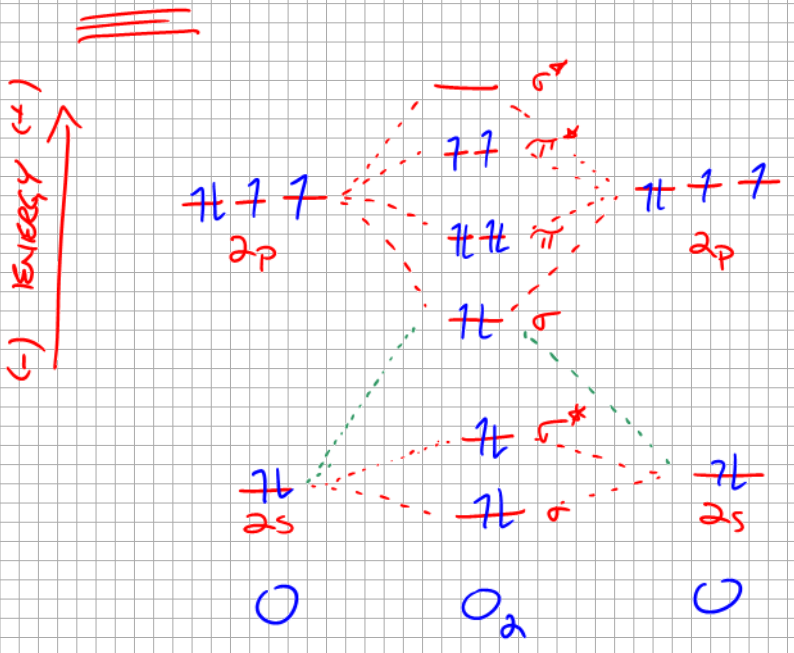
π, π^* BONDS:

P, d ORBITALS



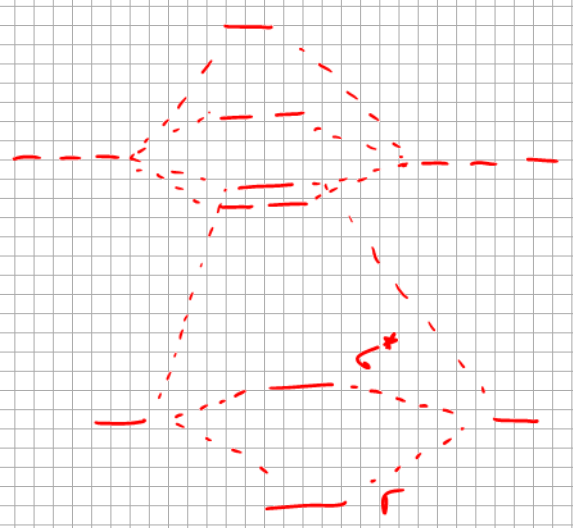
WHY NOT S ORBITALS: $\odot \pm \ominus$

GIVE A σ BOND FROM 2 P ORBITALS...



BONDING FROM VALENCE ORBITALS

Q: IS O_2 PARAMAGNETIC (UNPAIRED e^- 's) OR DIAMAGNETIC (NO UNPAIRED e^- 's)?



N_2 7 LEFT