

C. (3 min) Use **lines** on the energy diagram below and **words** to **explain** which of your candidates should be **THE** LUMO. LUMO? I LUMO? II



[Note that the energy difference between differently hybridized orbitals on the same atom ($p vs sp^3$) is minor compared to the difference between orbitals on atoms with different nuclear charges ($p_c vs p_N$).]