

In-Class Activity

- determine the new symmetry labels for the metal AOs

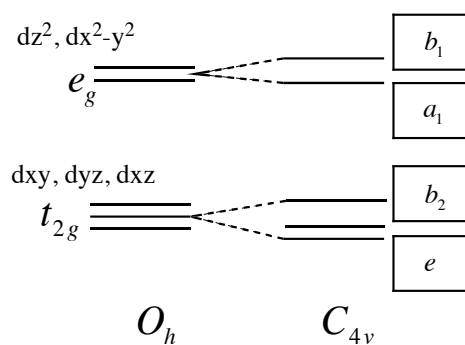
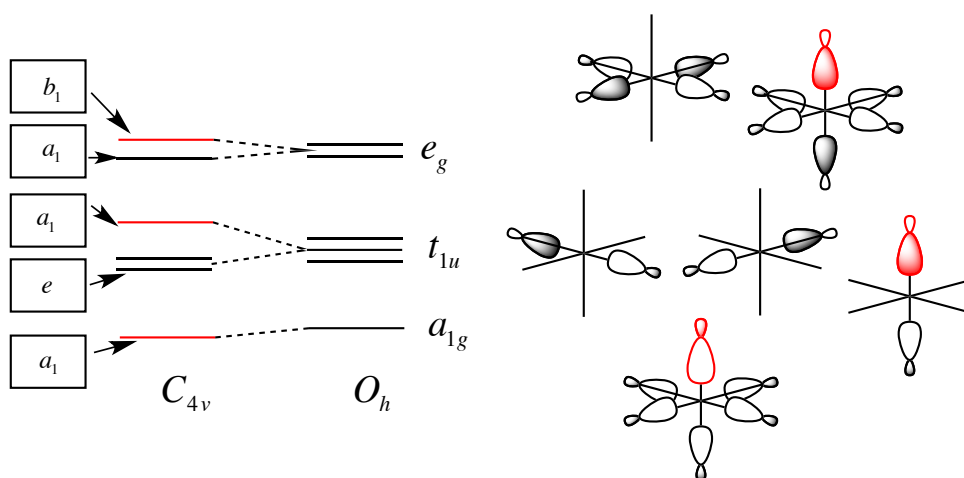


Figure 1 symmetry label change on a reduction in symmetry

- determine the reducible representation for the ligands:



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- now combine the TM dAO and ligand FO components form the energy level diagram for a C_{4v} TM complex.

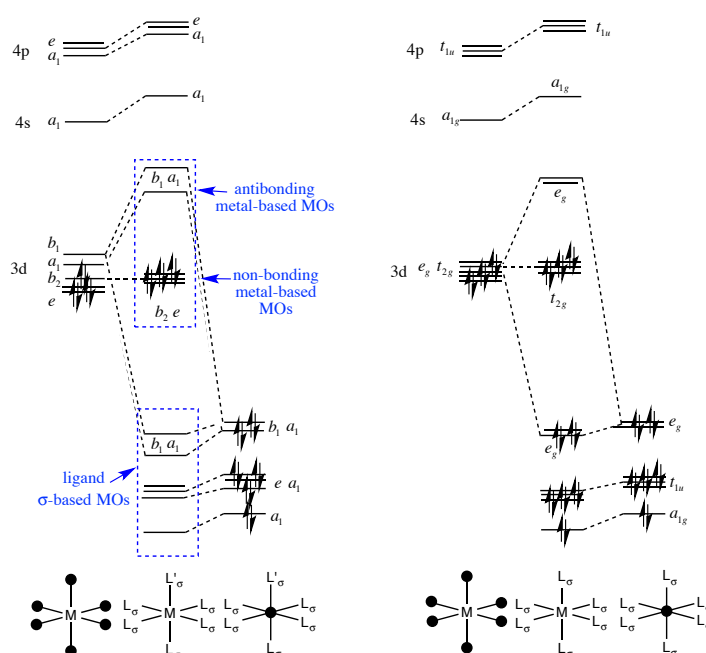


Figure 2 comparing the C_{4v} and O_h energy diagrams