

LECTURE 32 COORDINATION COMPLEXES AND LIGANDS

I. MO Theory for Octahedral Complexes

A. σ -donor ligands

1. MO diagram for $[\text{Co}(\text{NH}_3)_6]^{3+}$

B. π -donor ligands, effect on t_{2g}

1. Linear combinations that interact with T_{2g}
2. MO diagram for $\text{W}(\text{NH}_2)_6$

C. Effect of π -acid ligands on Δ_0