

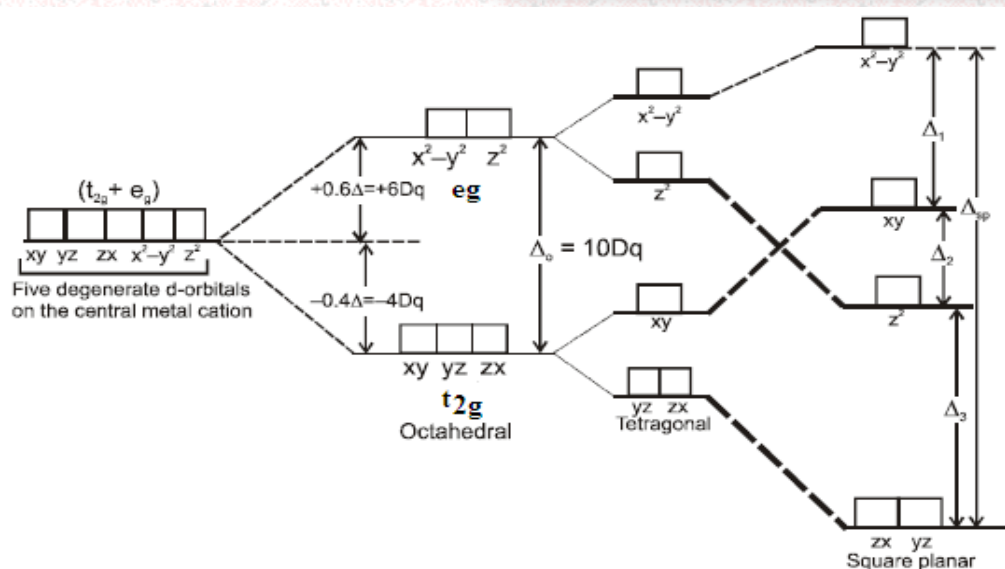
Metal-Ligand Bonding in Transition Metal Complexes

(Lecture-2)

B.Sc. 5th Semester (Pass Course)

INORGANIC CHEMISTRY

(As per MDU, Rohtak Syllabus)



Presented by:

Dr. Anju Siwach

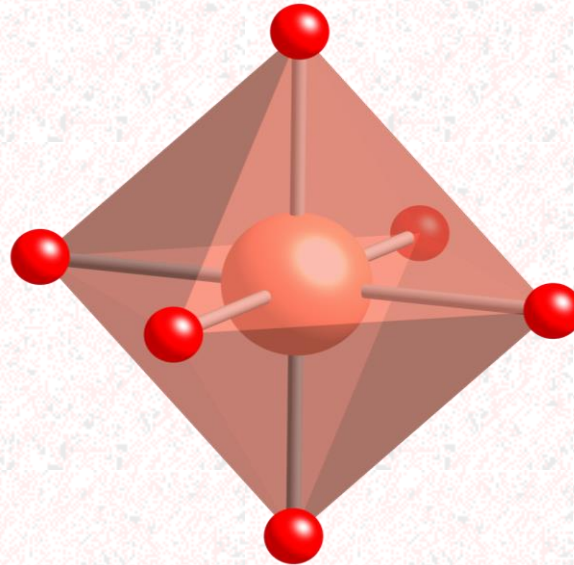
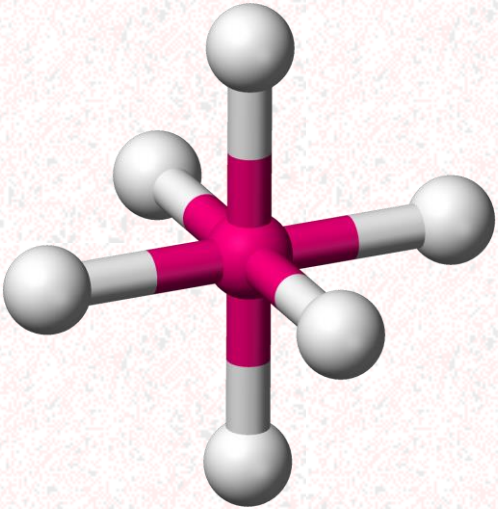
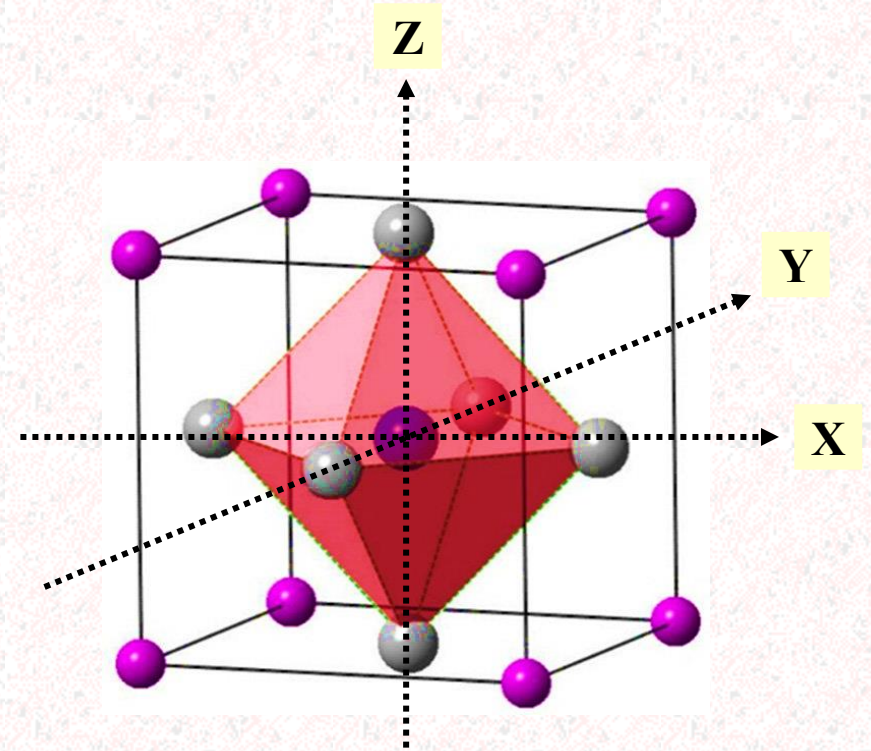
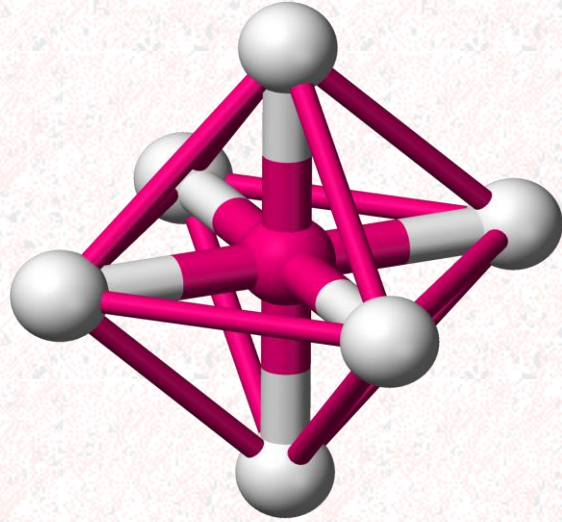
Assistant Professor Chemistry

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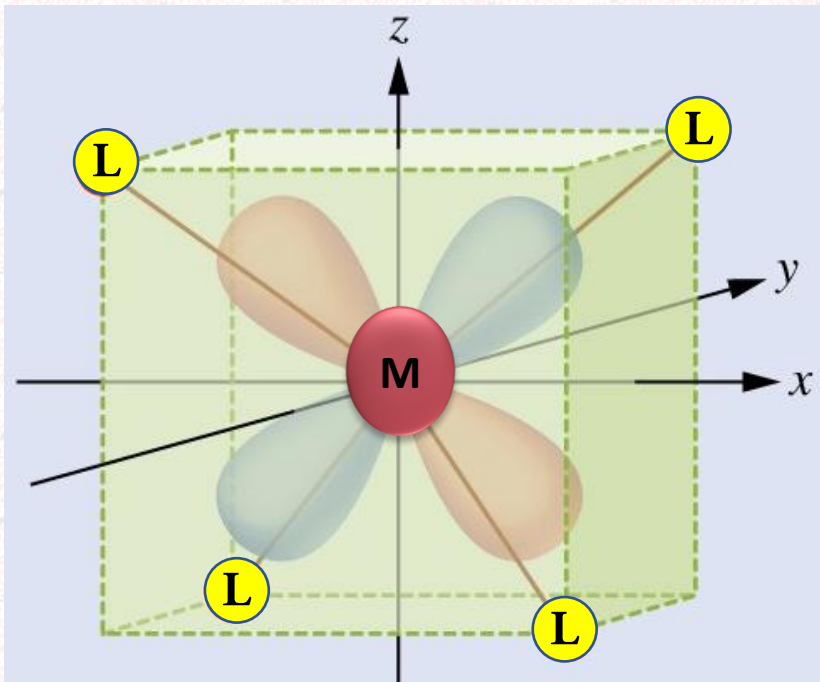
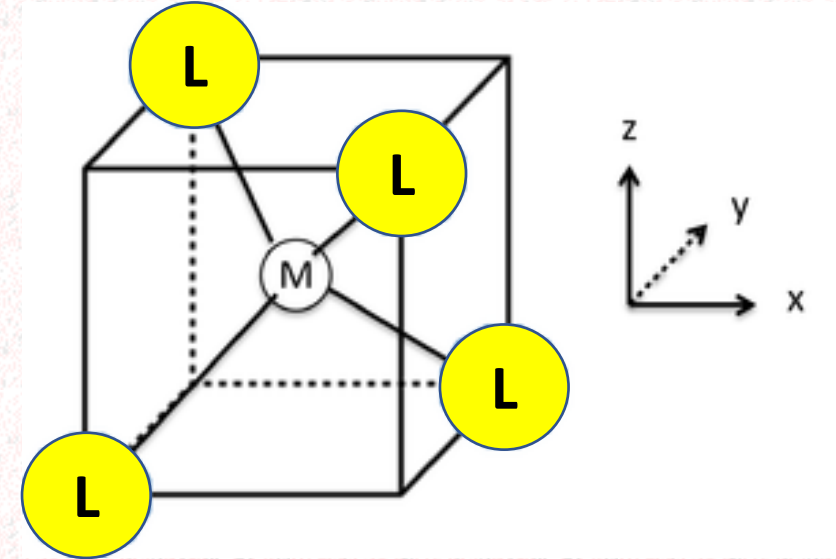
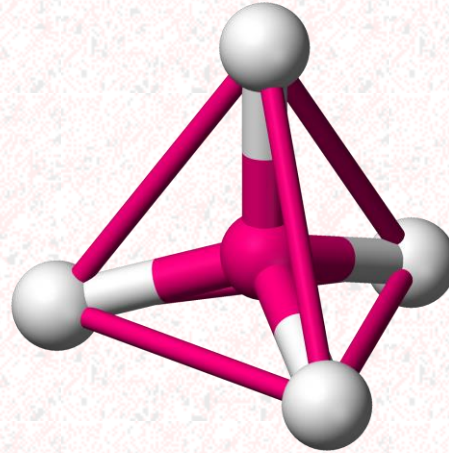
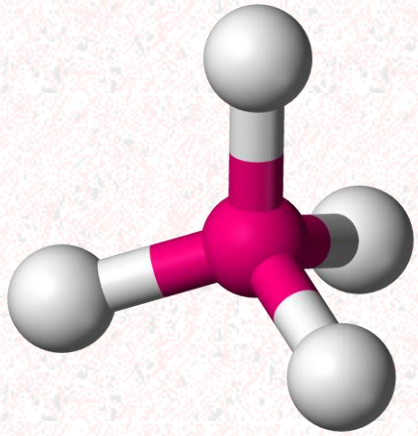
CONTENT

- **Structure of an Octahedral complex**
- **Structure of a tetrahedral complex**
- **Structure of a Square planar complex**

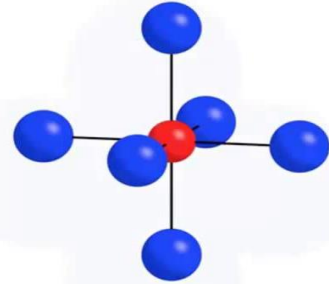
Structure of an Octahedral complex



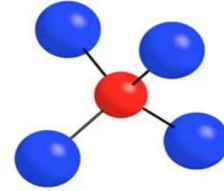
Structure of a tetrahedral complex



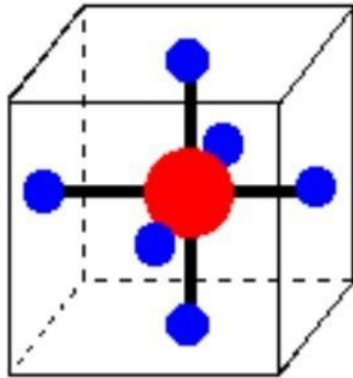
Combined Octahedral and Tetrahedral Structures:



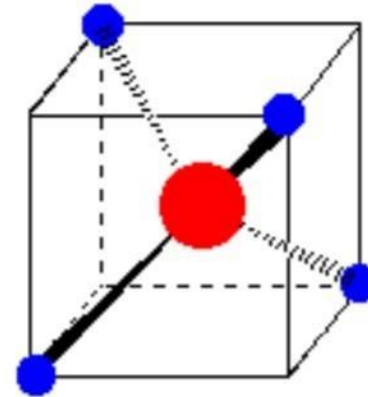
Octahedral
(coordination number 6)



Tetrahedral
(coordination number 4)

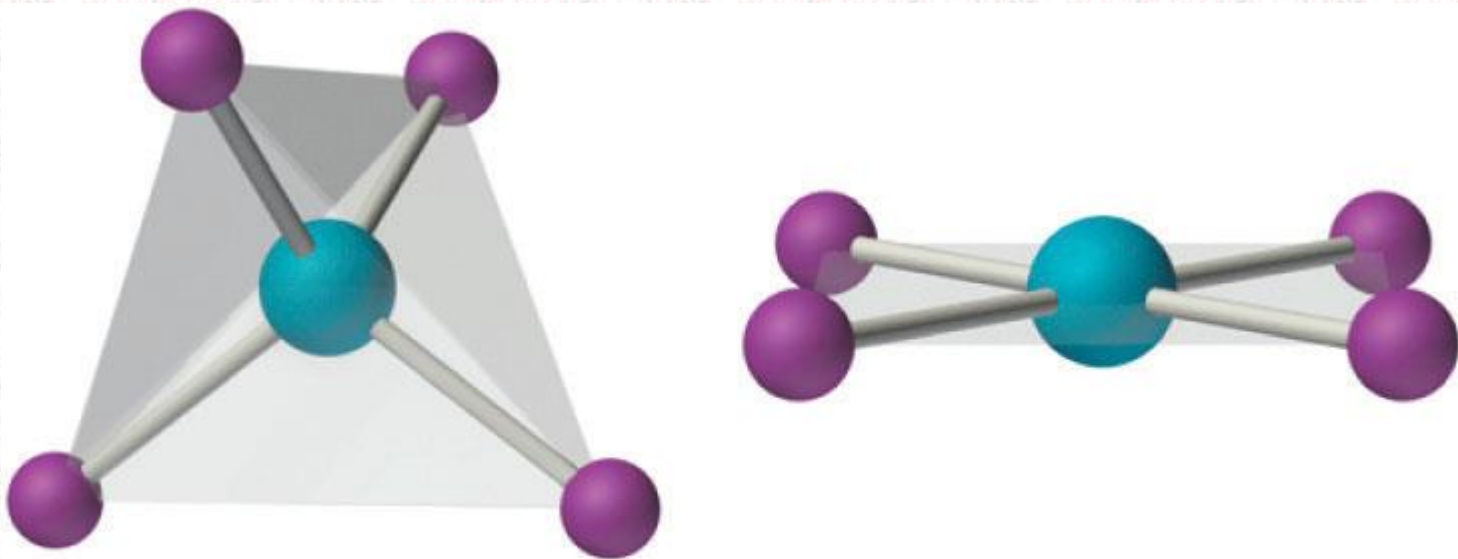


Octahedral complex in a cube.
Ligands are on the centers of
the cube faces.

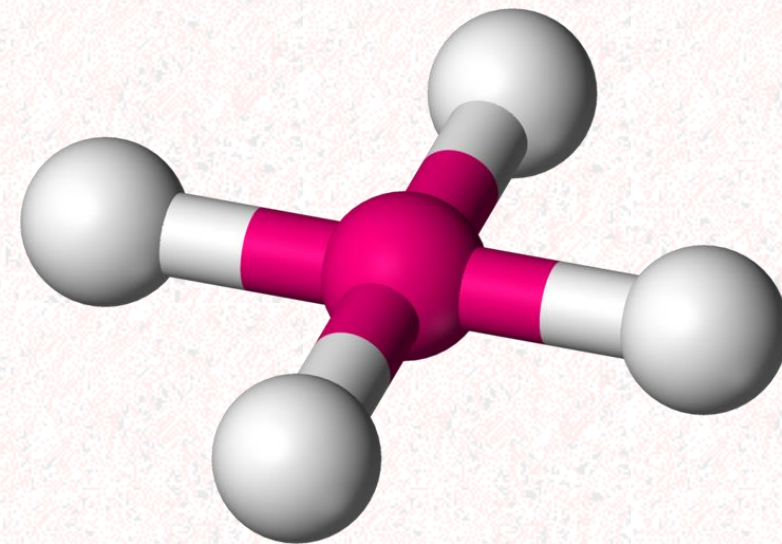


Tetrahedral complex in a cube.
Ligands are on alternate corners
of the cube.

Structure of a Square planar complex



Tetrahedral and square planar ML_4



Square Planar ML_4

