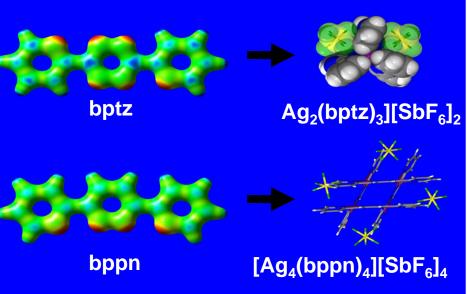
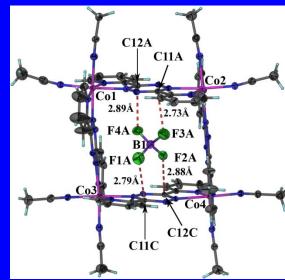
## Systematic and Theoretical Studies of Anion-π Interactions for the Development of Supermolecules and New Materials Kim R. Dunbar, Department of Chemistry, Texas A&M University



3,6-bis(2´-pyridyl)-1,2-pyridazine (bppn) rings affects the outcome of the reactions with AgSbF<sub>6</sub>; reactions with bptz lead to propeller-type species Ag<sub>2</sub>(bptz)<sub>3</sub>][SbF<sub>6</sub>]<sub>2</sub>, whereas the bppn reactions produce the grid-type structure [Ag<sub>4</sub>(bppn)<sub>4</sub>][SbF<sub>6</sub>]<sub>2</sub>. Single crystal X-ray diffraction studies revealed that  $[Co_4(NCCH_3)_8(bptz)_4 \subset BF_4][BF_4]_7$  adopts the square motif with an encapsulated [BF<sub>4</sub>] anion, which is positioned so that the fluorine atoms of [BF<sub>4</sub>] are pointing to the electron deficient carbon atoms of two bptz ligands.

pyridyl)-1,2,4,5-tetrazine (bptz) or

• The different  $\pi$ -acidity of the central 3,6-bis(2´-



ESP map of electron-deficient hexaazatriphenylene hexacarbonitrile (HAT(CN)<sub>e</sub>).

Cation of [Co<sub>4</sub>(NCCH<sub>3</sub>)<sub>8</sub>(bptz)<sub>4</sub>CBF<sub>4</sub>][BF<sub>4</sub>]<sub>7</sub>