

Conduction Band

E_{CBM}

E_F

E_{VBM}

Valence Band

T_1^+ $\uparrow\downarrow$ \uparrow \uparrow

E^+ $\uparrow\downarrow$ $\uparrow\downarrow$

T_2^- $\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$

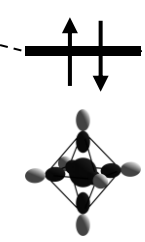
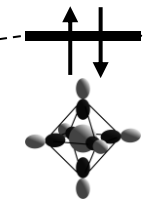
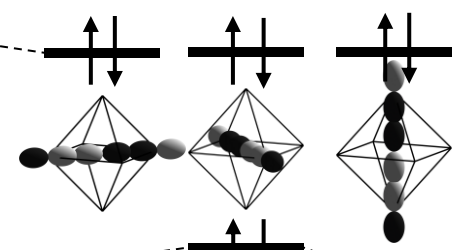
T_1^- $\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$

T_1^- $\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$

T_2^+ $\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$

A_1^+ $\uparrow\downarrow$

$\uparrow\downarrow$ \uparrow \uparrow **P**



$\uparrow\downarrow$

S

