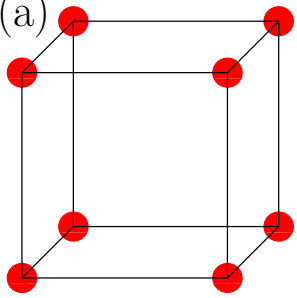
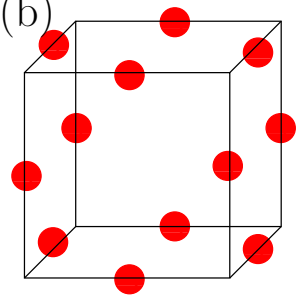
Cubic $Pm3m$ parent structure

(a)



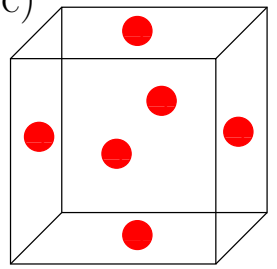
$\langle 111\rangle \rightarrow R3m$

(b)



$\langle 110\rangle \rightarrow Imm2$

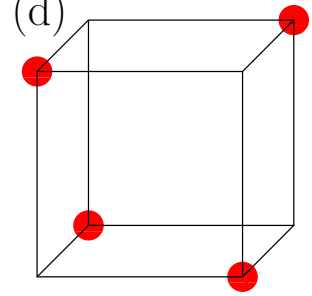
(c)



$\langle 100\rangle \rightarrow P4m$

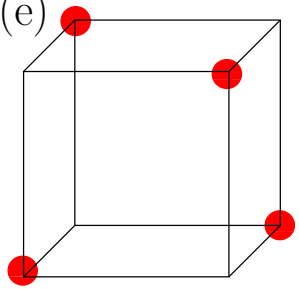
Tetrahedral $F\bar{4}3m$ parent structure

(d)



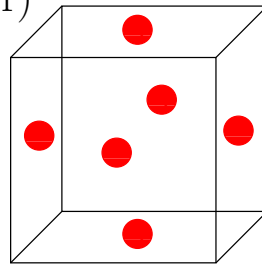
$\langle 111\rangle \rightarrow R3m$

(e)



$\langle \bar{1}\bar{1}\bar{1}\rangle \rightarrow R3m$

(f)



$\langle 100\rangle \rightarrow Imm$