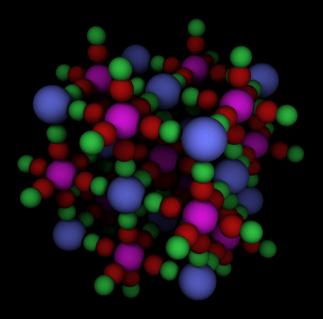
Vacancy structure in manganese hexakiscyanocobaltate

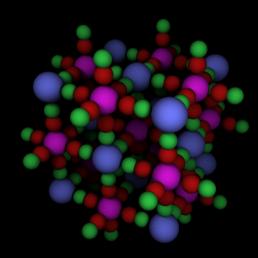


Max Krummenacher

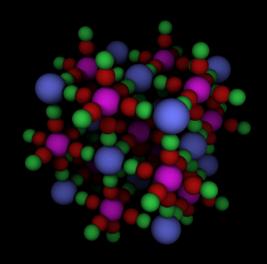
18 VE rule (octahedral symmetry)

$$egin{array}{lll} {
m Co^{III}} & 6{
m e^-} \\ {
m CN^-} & 2{
m e^-} \\ 6({
m CN^-}) & 12{
m e^-} \end{array}$$

18 VE rule (octahedral symmetry)



without charge neutrality



with charge neutrality

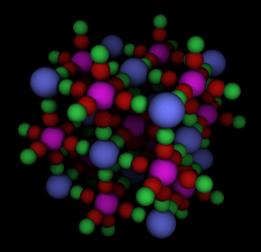
$$Co^{III} + 6CN^{-}$$

$$\left[\mathrm{Co^{III}(CN)}_{6}\right]^{-3}$$

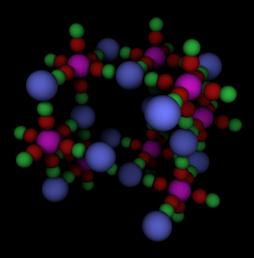
$$\mathrm{Mn^{II}}$$

$$\mathrm{Mn^{II}} \left[\mathrm{Co^{III}(CN)}_{6} \right]_{\frac{2}{3}}$$

without charge neutrality



with charge neutrality



Monte Carlo simulation

Results