

## 55<sup>th</sup> Eigenvector

$$N_e = 4 \quad s = 1 \quad m_s = 1$$

Irred. Representation :  $\Gamma_2$

$$E_{55} = \frac{J}{2} + 2t + U + 5W$$

$$\begin{aligned} |\Psi_{55}\rangle &= |4, 1, 1, \Gamma_2\rangle \\ &= \frac{1}{\sqrt{3}} (|2uu\rangle - |u2u\rangle + |uu2\rangle) \end{aligned}$$