

## 153<sup>rd</sup> Eigenvector

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

Irred. Representation :  $\Gamma_{4,3}$

$$E_{153} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{153}\rangle &= |4, 1, 1, \Gamma_{4,3}\rangle \\ &= \frac{1}{2\sqrt{2}} (|02uu\rangle - |0uu2\rangle + |20uu\rangle - |2uu0\rangle + |u02u\rangle + |u20u\rangle + |uu02\rangle + |uu20\rangle) \end{aligned}$$