

## 147<sup>th</sup> Eigenvector

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

Irred. Representation :  $\Gamma_2$

$$E_{147} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{147}\rangle &= |4, 1, 1, \Gamma_2\rangle \\ &= \frac{1}{2\sqrt{3}} (|02uu\rangle - |0u2u\rangle + |0uu2\rangle - |20uu\rangle + |2u0u\rangle - |2uu0\rangle \\ &\quad + |u02u\rangle - |u0u2\rangle - |u20u\rangle + |u2u0\rangle + |uu02\rangle - |uu20\rangle) \end{aligned}$$