

## 164<sup>th</sup> Eigenvector

$$N_e = 5 \quad s = \frac{3}{2} \quad m_s = -\frac{3}{2}$$

Irred. Representation :  $\Gamma_2$

$$E_{164} = \frac{3J}{2} + 3t + U + 18W$$

$$\begin{aligned} |\Psi_{164}\rangle &= |5, \frac{3}{2}, -\frac{3}{2}, \Gamma_2\rangle \\ &= \frac{1}{2} (|2ddd\rangle - |d2dd\rangle + |dd2d\rangle - |ddd2\rangle) \end{aligned}$$