

## 67<sup>th</sup> Eigenvector

$$N_e = 3 \quad s = \frac{3}{2} \quad m_s = \frac{1}{2}$$

Irred. Representation :  $\Gamma_2$

$$E_{67} = \frac{J}{2} - 3t + 6W$$

$$\begin{aligned} |\Psi_{67}\rangle &= |3, \frac{3}{2}, \frac{1}{2}, \Gamma_2\rangle \\ &= \frac{1}{2\sqrt{3}} (|0duu\rangle + |0udu\rangle + |0uud\rangle - |d0uu\rangle + |du0u\rangle - |duu0\rangle \\ &\quad - |u0du\rangle - |u0ud\rangle + |ud0u\rangle - |udu0\rangle + |uu0d\rangle - |uud0\rangle) \end{aligned}$$