

65th Eigenvector

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

Irred. Representation : $\Gamma_{5,3}$

$$E_{65} = \frac{J}{2} + t + 6W$$

$$\begin{aligned} |\Psi_{65}\rangle &= |3, \frac{3}{2}, -\frac{1}{2}, \Gamma_{5,3}\rangle \\ &= \frac{1}{2\sqrt{3}} (|0ddu\rangle + |0dud\rangle + |0udd\rangle + |d0du\rangle + |d0ud\rangle - |dd0u\rangle \\ &\quad - |ddu0\rangle - |du0d\rangle - |dud0\rangle + |u0dd\rangle - |ud0d\rangle - |udd0\rangle) \end{aligned}$$