

66th Eigenvector

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

Irred. Representation : Γ_1

$$E_{66} = t + U + 4W$$

$$\begin{aligned} |\Psi_{66}\rangle &= |3, \frac{1}{2}, \frac{1}{2}, \Gamma_1\rangle \\ &= \frac{1}{2\sqrt{3}} (|002u\rangle + |00u2\rangle + |020u\rangle + |02u0\rangle + |0u02\rangle + |0u20\rangle \\ &\quad + |200u\rangle + |20u0\rangle + |2u00\rangle + |u002\rangle + |u020\rangle + |u200\rangle) \end{aligned}$$