

169th Eigenvector

$$N_e = 5 \quad s = \frac{3}{2} \quad m_s = -\frac{1}{2}$$

Irred. Representation : Γ_2

$$E_{169} = \frac{J}{2} + 3t + U + 18W$$

$$\begin{aligned} |\Psi_{169}\rangle &= |5, \frac{3}{2}, -\frac{1}{2}, \Gamma_2\rangle \\ &= \frac{1}{2\sqrt{3}} (|2ddu\rangle + |2dud\rangle + |2udd\rangle - |d2du\rangle - |d2ud\rangle + |dd2u\rangle \\ &\quad - |ddu2\rangle + |du2d\rangle - |dud2\rangle - |u2dd\rangle + |ud2d\rangle - |udd2\rangle) \end{aligned}$$