

40th Eigenvector

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

Irred. Representation : $\Gamma_{5,2}$

$$E_{40} = \frac{3J}{2} + t + 6W$$

$$\begin{aligned} |\Psi_{40}\rangle &= |3, \frac{3}{2}, -\frac{3}{2}, \Gamma_{5,2}\rangle \\ &= \frac{1}{2} (|0ddd\rangle - |d0dd\rangle - |dd0d\rangle + |ddd0\rangle) \end{aligned}$$