

25th Eigenvector

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

Irred. Representation : Γ_2

$$E_{25} = U + 2W$$

$$\begin{aligned} |\Psi_{25}\rangle &= |3, \frac{1}{2}, -\frac{1}{2}, \Gamma_2\rangle \\ &= \frac{1}{\sqrt{6}} (|02d\rangle - |0d2\rangle - |20d\rangle + |2d0\rangle + |d02\rangle - |d20\rangle) \end{aligned}$$