

100th Eigenvector

$$N_e = 4 \quad s = 1 \quad m_s = -1$$

Irred. Representation : $\Gamma_{4,2}$

$$E_{100} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{100}\rangle &= |4, 1, -1, \Gamma_{4,2}\rangle \\ &= \frac{1}{2\sqrt{2}} (|02dd\rangle + |0d2d\rangle + |20dd\rangle + |2d0d\rangle - |d0d2\rangle - |d2d0\rangle - |dd02\rangle - |dd20\rangle) \end{aligned}$$