

99th Eigenvector

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

Irred. Representation : $\Gamma_{4,1}$

$$E_{99} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{99}\rangle &= |4, 1, -1, \Gamma_{4,1}\rangle \\ &= \frac{1}{2\sqrt{2}} (|0d2d\rangle + |0dd2\rangle + |2d0d\rangle + |2dd0\rangle + |d02d\rangle + |d0d2\rangle + |d20d\rangle + |d2d0\rangle) \end{aligned}$$