

101st Eigenvector

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

Irred. Representation : $\Gamma_{4,3}$

$$E_{101} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{101}\rangle &= |4, 1, -1, \Gamma_{4,3}\rangle \\ &= \frac{1}{2\sqrt{2}} (|02dd\rangle - |0dd2\rangle + |20dd\rangle - |2dd0\rangle + |d02d\rangle + |d20d\rangle + |dd02\rangle + |dd20\rangle) \end{aligned}$$