

95th Eigenvector

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

Irred. Representation : Γ_2

$$E_{95} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{95}\rangle &= |4, 1, -1, \Gamma_2\rangle \\ &= \frac{1}{2\sqrt{3}} (|02dd\rangle - |0d2d\rangle + |0dd2\rangle - |20dd\rangle + |2d0d\rangle - |2dd0\rangle \\ &\quad + |d02d\rangle - |d0d2\rangle - |d20d\rangle + |d2d0\rangle + |dd02\rangle - |dd20\rangle) \end{aligned}$$