

13rd Eigenvector

$$N_e = 2 \quad s = 1 \quad m_s = -1$$

Irred. Representation : $\Gamma_{5,1}$

$$E_{13} = \frac{1}{2}(J - 4t + 4W)$$

$$\begin{aligned} |\Psi_{13}\rangle &= |2, 1, -1, \Gamma_{5,1}\rangle \\ &= \frac{1}{2}(|00dd\rangle + |0dd0\rangle - |d00d\rangle + |dd00\rangle) \end{aligned}$$