

37th Eigenvector

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

Irred. Representation : $\Gamma_{5,3}$

$$E_{37} = \frac{1}{2}(J - 4t + 4W)$$

$$\begin{aligned} |\Psi_{37}\rangle &= |2, 1, 1, \Gamma_{5,3}\rangle \\ &= \frac{1}{2}(|00uu\rangle - |0u0u\rangle + |u0u0\rangle - |uu00\rangle) \end{aligned}$$