

30th Eigenvector

$$N_e = 2 \quad s = 1 \quad m_s = 0$$

Irred. Representation : $\Gamma_{5,2}$

$$E_{30} = 2W - 2t$$

$$\begin{aligned} |\Psi_{30}\rangle &= |2, 1, 0, \Gamma_{5,2}\rangle \\ &= \frac{1}{2\sqrt{2}} (|0d0u\rangle - |0du0\rangle + |0u0d\rangle - |0ud0\rangle - |d00u\rangle + |d0u0\rangle - |u00d\rangle + |u0d0\rangle) \end{aligned}$$