

29th Eigenvector

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

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

$$E_{29} = 2W - 2t$$

$$\begin{aligned} |\Psi_{29}\rangle &= |2, 1, 0, \Gamma_{5,1}\rangle \\ &= \frac{1}{2\sqrt{2}} (|00du\rangle + |00ud\rangle + |0du0\rangle + |0ud0\rangle - |d00u\rangle + |du00\rangle - |u00d\rangle + |ud00\rangle) \end{aligned}$$