

7th Eigenvector

$$N_e = 1 \quad s = \frac{1}{2} \quad m_s = \frac{1}{2}$$

Irred. Representation : $\Gamma_{4,1}$

$$E_7 = -t$$

$$\begin{aligned} |\Psi_7\rangle &= |1, \frac{1}{2}, \frac{1}{2}, \Gamma_{4,1}\rangle \\ &= \frac{1}{2}(|000u\rangle + |00u0\rangle - |0u00\rangle - |u000\rangle) \end{aligned}$$