

6th Eigenvector

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

Irred. Representation : Γ_1

$$E_6 = 3t$$

$$\begin{aligned} |\Psi_6\rangle &= |1, \frac{1}{2}, \frac{1}{2}, \Gamma_1\rangle \\ &= \frac{1}{2}(|000u\rangle + |00u0\rangle + |0u00\rangle + |u000\rangle) \end{aligned}$$