

6th Eigenvector

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

Irred. Representation : $\Gamma_{3,1}$

$$E_6 = -t$$

$$\begin{aligned} |\Psi_6\rangle &= |1, \frac{1}{2}, \frac{1}{2}, \Gamma_{3,1}\rangle \\ &= \frac{1}{\sqrt{2}} (|00u\rangle - |0u0\rangle) \end{aligned}$$