

2nd Eigenvector

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

Irred. Representation : Γ_1

$$E_2 = 2t$$

$$\begin{aligned} |\Psi_2\rangle &= |1, \frac{1}{2}, -\frac{1}{2}, \Gamma_1\rangle \\ &= \frac{1}{\sqrt{3}} (|00d\rangle + |0d0\rangle + |d00\rangle) \end{aligned}$$