

20th Eigenvector

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

Irred. Representation : Γ_2

$$E_{20} = \frac{J}{2} - 2t + W$$

$$\begin{aligned} |\Psi_{20}\rangle &= |2, 1, 1, \Gamma_2\rangle \\ &= \frac{1}{\sqrt{3}} (|0uu\rangle - |u0u\rangle + |uu0\rangle) \end{aligned}$$