

59th Eigenvector

$$N_e = 5 \quad s = \frac{1}{2} \quad m_s = -\frac{1}{2}$$

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

$$E_{59} = t + 2U + 8W$$

$$\begin{aligned} |\Psi_{59}\rangle &= |5, \frac{1}{2}, -\frac{1}{2}, \Gamma_{3,1}\rangle \\ &= \frac{1}{\sqrt{2}} (|22d\rangle - |2d2\rangle) \end{aligned}$$