

165th Eigenvector

$$N_e = 5 \quad s = \frac{3}{2} \quad m_s = -\frac{3}{2}$$

Irred. Representation : $\Gamma_{5,1}$

$$E_{165} = \frac{3J}{2} - t + U + 18W$$

$$\begin{aligned} |\Psi_{165}\rangle &= |5, \frac{3}{2}, -\frac{3}{2}, \Gamma_{5,1}\rangle \\ &= \frac{1}{2} (|2ddd\rangle + |d2dd\rangle + |dd2d\rangle + |ddd2\rangle) \end{aligned}$$