

89th Eigenvector

$$N_e = 3 \quad s = \frac{3}{2} \quad m_s = \frac{1}{2}$$

Irred. Representation : $\Gamma_{5,3}$

$$E_{89} = \frac{J}{2} + t + 6W$$

$$\begin{aligned} |\Psi_{89}\rangle &= |3, \frac{3}{2}, \frac{1}{2}, \Gamma_{5,3}\rangle \\ &= \frac{1}{2\sqrt{3}} (|0duu\rangle + |0udu\rangle + |0uud\rangle + |d0uu\rangle - |du0u\rangle - |duu0\rangle \\ &\quad + |u0du\rangle + |u0ud\rangle - |ud0u\rangle - |udu0\rangle - |uu0d\rangle - |uud0\rangle) \end{aligned}$$