

212nd Eigenvector

$$N_e = 5 \quad s = \frac{3}{2} \quad m_s = \frac{1}{2}$$

Irred. Representation : $\Gamma_{5,2}$

$$E_{212} = \frac{J}{2} - t + U + 18W$$

$$\begin{aligned} |\Psi_{212}\rangle &= |5, \frac{3}{2}, \frac{1}{2}, \Gamma_{5,2}\rangle \\ &= \frac{1}{2\sqrt{3}} (|2duu\rangle + |2udu\rangle + |2uud\rangle - |d2uu\rangle - |du2u\rangle + |duu2\rangle \\ &\quad - |u2du\rangle - |u2ud\rangle - |ud2u\rangle + |udu2\rangle - |uu2d\rangle + |uud2\rangle) \end{aligned}$$