57^{th} Eigenvector

$\boldsymbol{N_e = 4 \qquad s = 1 \qquad m_s = 1}$

Irred. Representation : $\boldsymbol{\Gamma_{3,2}}$

$$E_{57} = \frac{J}{2} - t + U + 5W$$

$$\begin{aligned} |\Psi_{57}\rangle &= |4, 1, 1, \Gamma_{3,2}\rangle \\ &= \frac{1}{\sqrt{2}} \left(|u2u\rangle + |uu2\rangle \right) \end{aligned}$$