152^{nd} Eigenvector

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

Irred. Representation : $\boldsymbol{\Gamma_{4,2}}$

$$E_{152} = \frac{J}{2} + U + 10W$$

$$\begin{aligned} |\Psi_{152}\rangle &= |4,1,1,\Gamma_{4,2}\rangle \\ &= \frac{1}{2\sqrt{2}}\left(|02uu\rangle + |0u2u\rangle + |20uu\rangle + |2u0u\rangle - |u0u2\rangle - |u2u0\rangle - |uu02\rangle - |uu20\rangle\right) \end{aligned}$$