118^{th} Eigenvector

$\boldsymbol{N_e \;=\; 4 \qquad s = 1 \qquad m_s = 0}$

Irred. Representation : $\boldsymbol{\Gamma_{3,1}}$

$$E_{118} \;=\; U + 10W$$

$$\begin{aligned}|\Psi_{118}\rangle \;&=\; |4,1,0,\Gamma_{3,1}\rangle \\ &=\; \frac{1}{4}\left(|02du\rangle + |02ud\rangle - |0du2\rangle - |0ud2\rangle - |20du\rangle - |20ud\rangle + |2du0\rangle + |2ud0\rangle\right. \\ &\qquad \left. -|d02u\rangle + |d20u\rangle + |du02\rangle - |du20\rangle - |u02d\rangle + |u20d\rangle + |ud02\rangle - |ud20\rangle\right)\end{aligned}$$