26$^{\text{th}}$ Eigenvector

$N_e = 2 \qquad s = 0 \qquad m_s = 0$

Irred. Representation : $\Gamma_{4,3}$

$$E_{26} = \frac{1}{2}\left(-J + U + 2W - \sqrt{A_1}\right)$$

$$
\begin{aligned}
|\Psi_{26}\rangle &= |2,0,0,\Gamma_{4,3}\rangle \\
&= C_{26,1}\left(|0002\rangle - |0020\rangle + |0200\rangle - |2000\rangle\right) \\
&+ C_{26,2}\left(|0d0u\rangle - |0u0d\rangle - |d0u0\rangle + |u0d0\rangle\right)
\end{aligned}
$$

$$
\begin{aligned}
C_{26-1} &= -t \\
C_{26-2} &= \frac{1}{4}\left(-J - U + 2W - \sqrt{A_1}\right) \\
N_{26} &= 2\sqrt{C_{26,1}^2 + C_{26,2}^2}
\end{aligned}
$$