

## 126<sup>th</sup> Eigenvector

$$N_e = 4 \quad s = 1 \quad m_s = 0$$

Irred. Representation :  $\Gamma_{4,1}$

$$E_{126} = U + 10W$$

$$\begin{aligned} |\Psi_{126}\rangle &= |4, 1, 0, \Gamma_{4,1}\rangle \\ &= \frac{1}{4} (|0d2u\rangle + |0du2\rangle + |0u2d\rangle + |0ud2\rangle + |2d0u\rangle + |2du0\rangle + |2u0d\rangle + |2ud0\rangle \\ &\quad + |d02u\rangle + |d0u2\rangle + |d20u\rangle + |d2u0\rangle + |u02d\rangle + |u0d2\rangle + |u20d\rangle + |u2d0\rangle) \end{aligned}$$