

## 130<sup>th</sup> Eigenvector

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

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

$$E_{130} = U + 10W$$

$$\begin{aligned} |\Psi_{130}\rangle &= |4, 1, 0, \Gamma_{4,2}\rangle \\ &= \frac{1}{4} (|02du\rangle + |02ud\rangle + |0d2u\rangle + |0u2d\rangle + |20du\rangle + |20ud\rangle + |2d0u\rangle + |2u0d\rangle \\ &\quad - |d0u2\rangle - |d2u0\rangle - |du02\rangle - |du20\rangle - |u0d2\rangle - |u2d0\rangle - |ud02\rangle - |ud20\rangle) \end{aligned}$$