

## 185<sup>th</sup> Eigenvector

$$N_e = 5 \quad s = \frac{3}{2} \quad m_s = -\frac{1}{2}$$

Irred. Representation :  $\Gamma_{5,1}$

$$E_{185} = \frac{J}{2} - t + U + 18W$$

$$\begin{aligned} |\Psi_{185}\rangle &= |5, \frac{3}{2}, -\frac{1}{2}, \Gamma_{5,1}\rangle \\ &= \frac{1}{2\sqrt{3}} (|2ddu\rangle + |2dud\rangle + |2udd\rangle + |d2du\rangle + |d2ud\rangle + |dd2u\rangle \\ &\quad + |ddu2\rangle + |du2d\rangle + |dud2\rangle + |u2dd\rangle + |ud2d\rangle + |udd2\rangle) \end{aligned}$$