

## 228<sup>th</sup> Eigenvector

$$N_e = 6 \quad s = 0 \quad m_s = 0$$

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

$$E_{228} = 2(t + U + 13W) - J$$

$$\begin{aligned} |\Psi_{228}\rangle &= |6, 0, 0, \Gamma_{3,1}\rangle \\ &= C_{228,1} (|22du\rangle - |22ud\rangle + |2du2\rangle - |2ud2\rangle + |d22u\rangle + |du22\rangle - |u22d\rangle - |ud22\rangle) \\ &\quad + C_{228,2} (|2d2u\rangle - |2u2d\rangle + |d2u2\rangle - |u2d2\rangle) \end{aligned}$$

$$C_{228-1} = -\frac{1}{2\sqrt{6}}$$

$$C_{228-2} = \frac{1}{\sqrt{6}}$$

$$N_{228} = 2\sqrt{2C_{228,1}^2 + C_{228,2}^2}$$