

## 58<sup>th</sup> Eigenvector

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

Irred. Representation :  $\Gamma_1$

$$E_{58} = -2t + 2U + 8W$$

$$\begin{aligned} |\Psi_{58}\rangle &= |5, \frac{1}{2}, -\frac{1}{2}, \Gamma_1\rangle \\ &= \frac{1}{\sqrt{3}} (|22d\rangle + |2d2\rangle + |d22\rangle) \end{aligned}$$