

## 19<sup>th</sup> Eigenvector

$$N_e = 2 \quad s = 0 \quad m_s = 0$$

Irred. Representation :  $\Gamma_{3,2}$

$$E_{19} = -J - 2t + 2W$$

$$\begin{aligned} |\Psi_{19}\rangle &= |2, 0, 0, \Gamma_{3,2}\rangle \\ &= \frac{1}{2\sqrt{2}} (|00du\rangle - |00ud\rangle - |0du0\rangle + |0ud0\rangle - |d00u\rangle + |du00\rangle + |u00d\rangle - |ud00\rangle) \end{aligned}$$