

### 33<sup>rd</sup> Eigenvector

$$N_e = 2 \quad s = 1 \quad m_s = 1$$

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

$$E_{33} = \frac{1}{2}(J + 4(t + W))$$

$$\begin{aligned} |\Psi_{33}\rangle &= |2, 1, 1, \Gamma_{4,2}\rangle \\ &= \frac{1}{2}(|00uu\rangle + |0u0u\rangle - |u0u0\rangle - |uu00\rangle) \end{aligned}$$