

### 36<sup>th</sup> Eigenvector

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

Irred. Representation :  $\Gamma_{5,2}$

$$E_{36} = \frac{1}{2}(J - 4t + 4W)$$

$$\begin{aligned} |\Psi_{36}\rangle &= |2, 1, 1, \Gamma_{5,2}\rangle \\ &= \frac{1}{2}(|0u0u\rangle - |0uu0\rangle - |u00u\rangle + |u0u0\rangle) \end{aligned}$$