

## 15<sup>th</sup> Eigenvector

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

Irred. Representation :  $\Gamma_{5,3}$

$$E_{15} = \frac{1}{2}(J - 4t + 4W)$$

$$\begin{aligned} |\Psi_{15}\rangle &= |2, 1, -1, \Gamma_{5,3}\rangle \\ &= \frac{1}{2}(|00dd\rangle - |0d0d\rangle + |d0d0\rangle - |dd00\rangle) \end{aligned}$$