

## 45<sup>th</sup> Eigenvector

$$N_e = 4 \quad s = 1 \quad m_s = -1$$

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

$$E_{45} = \frac{J}{2} - t + U + 5W$$

$$\begin{aligned} |\Psi_{45}\rangle &= |4, 1, -1, \Gamma_{3,2}\rangle \\ &= \frac{1}{\sqrt{2}} (|d2d\rangle + |dd2\rangle) \end{aligned}$$