

## 31<sup>st</sup> Eigenvector

$$N_e = 2 \quad s = 1 \quad m_s = 0$$

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

$$E_{31} = 2W - 2t$$

$$\begin{aligned} |\Psi_{31}\rangle &= |2, 1, 0, \Gamma_{5,3}\rangle \\ &= \frac{1}{2\sqrt{2}} (|00du\rangle + |00ud\rangle - |0d0u\rangle - |0u0d\rangle + |d0u0\rangle - |du00\rangle + |u0d0\rangle - |ud00\rangle) \end{aligned}$$