## $13^{\mathrm{rd}}$ Eigenvector

$\boldsymbol{N_e = 2 \qquad s = 1 \qquad m_s = 0}$

**Irred. Representation : $\boldsymbol{\Gamma_2}$**

$$E_{13} = W - 2t$$

$$\begin{aligned} |\Psi_{13}\rangle &= |2, 1, 0, \Gamma_2\rangle \\ &= \frac{1}{\sqrt{6}} \left( |0du\rangle + |0ud\rangle - |d0u\rangle + |du0\rangle - |u0d\rangle + |ud0\rangle \right) \end{aligned}$$