

## 16<sup>th</sup> Eigenvector

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

Irred. Representation :  $\Gamma_{3,1}$

$$E_{16} = t + W$$

$$\begin{aligned} |\Psi_{16}\rangle &= |2, 1, 0, \Gamma_{3,1}\rangle \\ &= C_{16,1} (|0du\rangle + |0ud\rangle) \\ &\quad + C_{16,2} (|d0u\rangle - |du0\rangle + |u0d\rangle - |ud0\rangle) \end{aligned}$$

$$C_{16-1} = -\frac{1}{\sqrt{3}}$$

$$C_{16-2} = -\frac{1}{2\sqrt{3}}$$

$$N_{16} = \sqrt{2C_{16,1}^2 + 4C_{16,2}^2}$$