

221st Eigenvector

$$N_e = 6 \quad s = 1 \quad m_s = -1$$

Irred. Representation : $\Gamma_{4,2}$

$$E_{221} = \frac{1}{2}(J - 4t + 4U + 52W)$$

$$\begin{aligned} |\Psi_{221}\rangle &= |6, 1, -1, \Gamma_{4,2}\rangle \\ &= \frac{1}{2}(|22dd\rangle + |2d2d\rangle - |d2d2\rangle - |dd22\rangle) \end{aligned}$$