209$^{\text{th}}$ **Eigenvector**

$$N_e = 5 \qquad s = \frac{3}{2} \qquad m_s = \frac{1}{2}$$

Irred. Representation : $\Gamma_{5,1}$

$$E_{209} = \frac{J}{2} - t + U + 18W$$

$$
\begin{aligned}
|\Psi_{209}\rangle &= \left|5, \frac{3}{2}, \frac{1}{2}, \Gamma_{5,1}\right\rangle \\
&= \frac{1}{2\sqrt{3}} \left(|2duu\rangle + |2udu\rangle + |2uud\rangle + |d2uu\rangle + |du2u\rangle + |duu2\rangle \right. \\
&\qquad \left. + |u2du\rangle + |u2ud\rangle + |ud2u\rangle + |udu2\rangle + |uu2d\rangle + |uud2\rangle \right)
\end{aligned}
$$