

$$\begin{aligned}
\hat{H} &= \hbar[D(\hat{S}_z^2 - \frac{2}{3}I_3) + E(\hat{S}_x^2 - \hat{S}_y^2) + \gamma_{nv}\vec{B} \cdot \hat{\vec{S}}] \\
\Delta E_{[m_s=+1]} &= +g_e\mu_B \mid \vec{B} \cdot \hat{u} \mid \\
\Delta E_{[m_s=-1]} &= -g_e\mu_B \mid \vec{B} \cdot \hat{u} \mid \\
\Delta E_{[m_s=0]} &= 0 \\
\hat{H} &= \hbar[D(\hat{S}_z^2 - \frac{2}{3}I_3) + \gamma_{nv}B_z\hat{S}_z] \\
m_s &= +1 \\
m_s &= -1 \\
\Delta\nu_i &= \nu_{i[+1]} - \nu_{i[-1]} \\
B_i &= \Delta\nu_i/\gamma_{nv}
\end{aligned}$$

$$\begin{cases} \Delta\nu_i = \nu_{i[+1]} - \nu_{i[-1]} \\ B_i = \Delta\nu_i/\gamma_{nv} \end{cases} \quad (1)$$

$$[\hat{u}_1, \hat{u}_2, \hat{u}_3, \hat{u}_4]; [-1, -1, 1, 1]$$

$$\begin{cases} \vec{B} \cdot \hat{u}_{list}[i]_1 = B_1 \\ \vec{B} \cdot \hat{u}_{list}[i]_2 = B_2 \\ \vec{B} \cdot \hat{u}_{list}[i]_3 = B_3 \end{cases} \quad (2)$$

$$\begin{cases} \vec{B} \cdot \hat{u}_1 = B_i \\ \vec{B} \cdot \hat{u}_2 = B_i \\ \vec{B} \cdot \hat{u}_3 = B_i \end{cases} \quad (3)$$

$$\vec{B} \cdot \hat{u}_{list}[i]_4 = B_4$$