

$$\begin{pmatrix} (\frac{3}{2}\mu_B + \frac{1}{2}\mu_N)B + A_1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & (\frac{3}{4}\mu_B + \frac{1}{4}\mu_N)B + A_1 & 0 & 0 & 0 & \frac{\sqrt{3}}{4}(\mu_B - \mu_N)B & 0 & 0 \\ 0 & 0 & A_1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -(\frac{3}{4}\mu_B + \frac{1}{4}\mu_N)B + A_1 & 0 & 0 & 0 & \frac{\sqrt{3}}{4}(\mu_B - \mu_N)B \\ 0 & 0 & 0 & 0 & -(\frac{3}{2}\mu_B + \frac{1}{2}\mu_N)B + A_1 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{3}}{4}(\mu_B - \mu_N)B & 0 & 0 & 0 & (\frac{3}{4}\mu_B + \frac{1}{4}\mu_N)B + A_2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & A_2 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{3}}{4}(\mu_B - \mu_N)B & 0 & 0 & 0 & -(\frac{3}{4}\mu_B + \frac{1}{4}\mu_N)B + A_2 \end{pmatrix}$$