

$$\begin{aligned} H_{rot-symm} = & BN^2 + (A - B)N_z^2 - D_N N^4 - D_{NK} N^2 N_z^2 - D_K N_z^4 \\ & + H_N N^6 + H_{NK} N^4 N_z^2 + H_{KN} N^2 N_z^4 + H_K N_z^6 \end{aligned}$$