

$$\frac{\gamma \lambda k_B T}{\mu_0} \int d^3 N \left(N \times \left[N \times \frac{\partial}{\partial N} \right] \right) f(N, t) = \frac{\gamma \lambda k_B T}{\mu_0} \int d^3 N \varepsilon^\alpha_{i\beta} \varepsilon^\beta_{jk} N^i N^j \frac{\partial}{\partial N}{}^k f(N, t)$$