

$$\int \mathrm{d}^3 N \, N \frac{\partial}{\partial t} (f(N, t)) = -\gamma (\boldsymbol{m} \times \boldsymbol{H}) - \gamma \lambda \langle \boldsymbol{s} \times [\boldsymbol{s} \times \boldsymbol{H}] \rangle + \frac{\gamma \lambda k_{\mathrm{B}} T}{\mu_0} \int \mathrm{d}^3 N \left(\boldsymbol{N} \times \left[\boldsymbol{N} \times \frac{\partial}{\partial \boldsymbol{N}} \right] \right) f$$