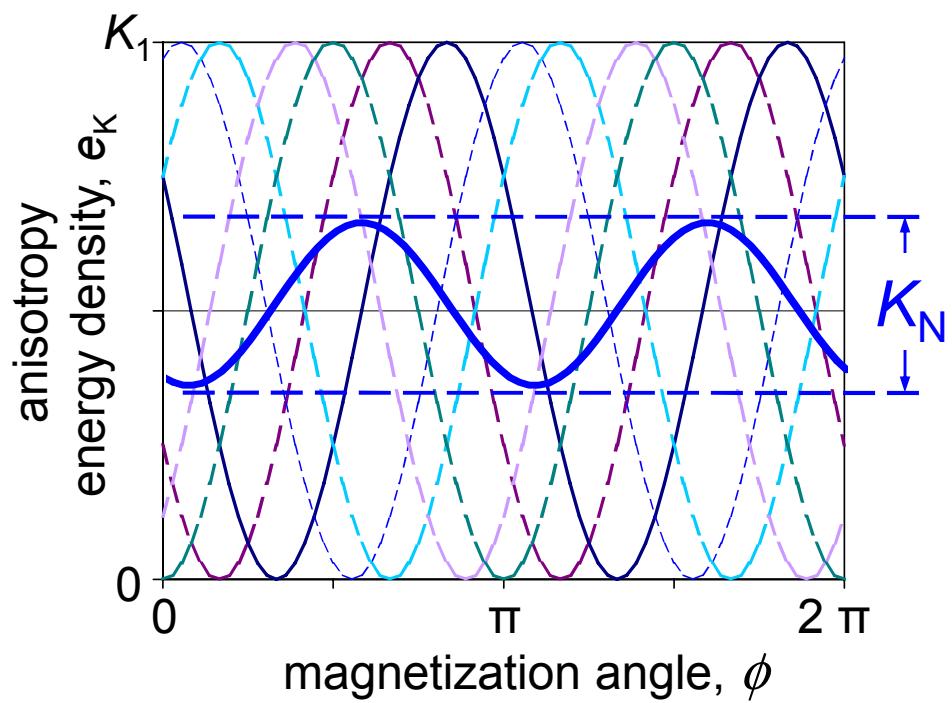
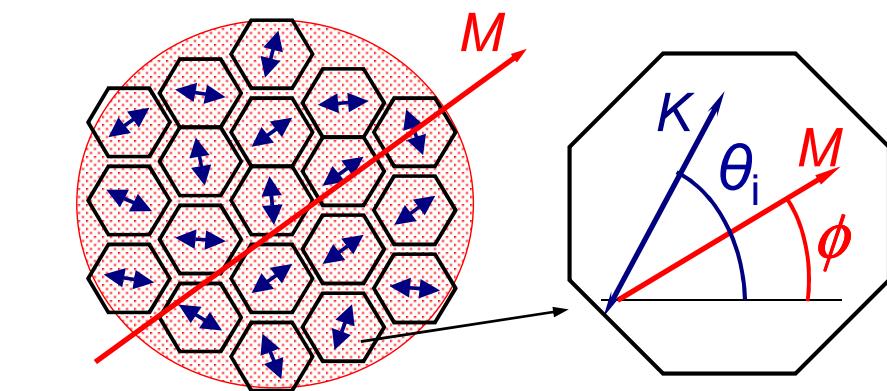


# Averaging Random Anisotropies



anisotropy energy density

$$\langle e_K \rangle = \frac{1}{N} \sum_i K_1 \cdot \sin^2(\phi - \theta_i)$$

magnetization constant orientation  $\phi$

anisotropy random orientation  $\theta$

$$K_N = \frac{K_1}{\sqrt{N}} \cdot \sqrt{1 + \frac{1}{N} \sum_i \sum_{j \neq i} \cos(2(\theta_i - \theta_j))}$$

random phases

$$\langle K_N \rangle = \frac{\beta K_1}{\sqrt{N}}$$

$$\beta = 0.90$$