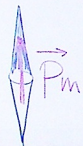
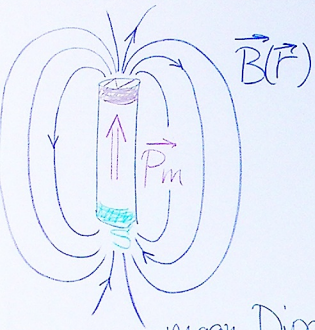


# Rep.: Magnetfelder



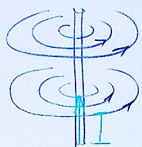
magn. Dipolmoment

in B-Feld

→ Drehmoment ( $\vec{P}_m \rightarrow \parallel \vec{B}$ )

→ Kraft in inhom. B-Feld

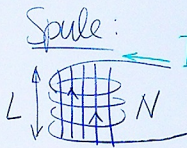
## B-Felder von Strömen gerader Leiter:



- kreisf. Feldlinien
- rechte-Hand-Regel

$$B = \frac{\mu_0 I}{2\pi r}$$

Spule:



- im Inneren homogen

$$B = \frac{\mu_0 N I}{L}$$

## Lorentzkraft

... auf bewegte Ladungen ( $\vec{v}$ )

$$\vec{F}_L = q(\vec{v} \times \vec{B})$$

