DIAMAGNETI

 $\chi_{m}^{<0}$

X m N - 40

PARAMAGNETI

X > 0

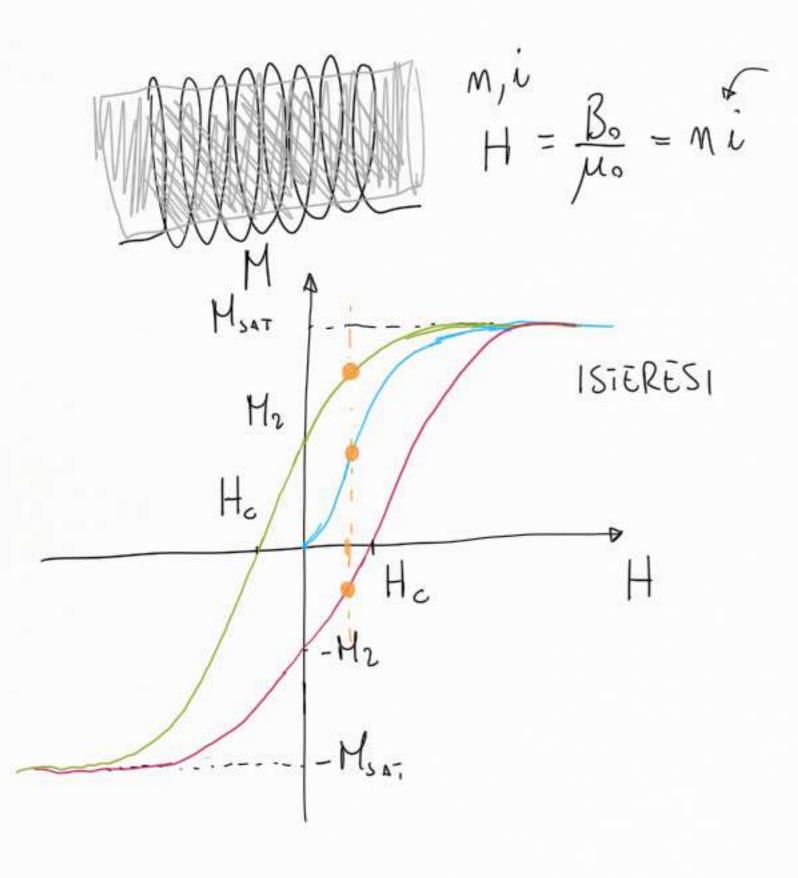
X ~ 105

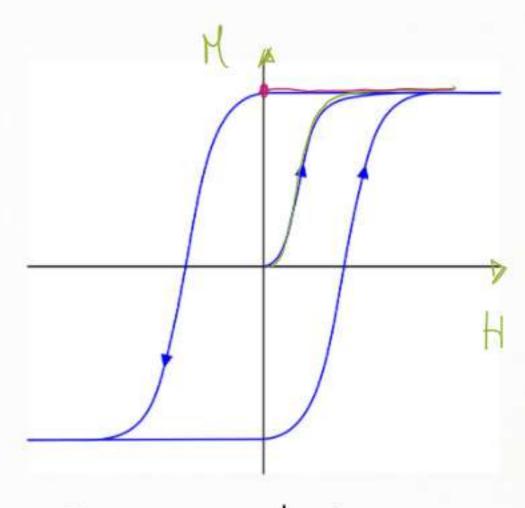
FERROMAGNET,

Xm ~ 103 - 104

M = XmH ahamagneti e peramagneti
B = Ma (H+H)

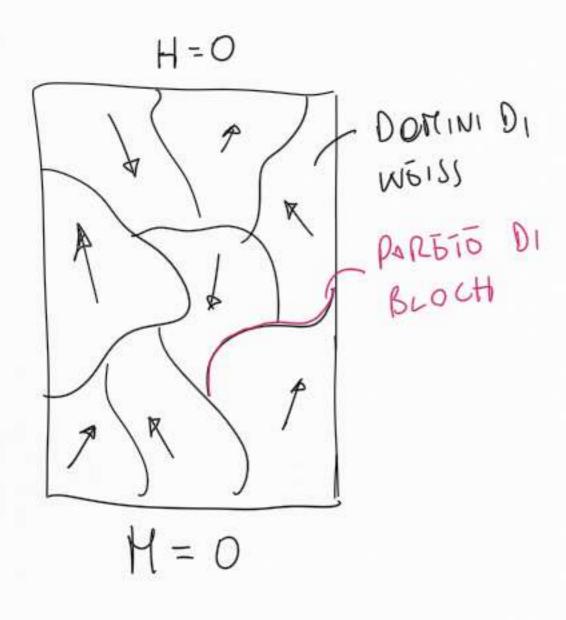
,

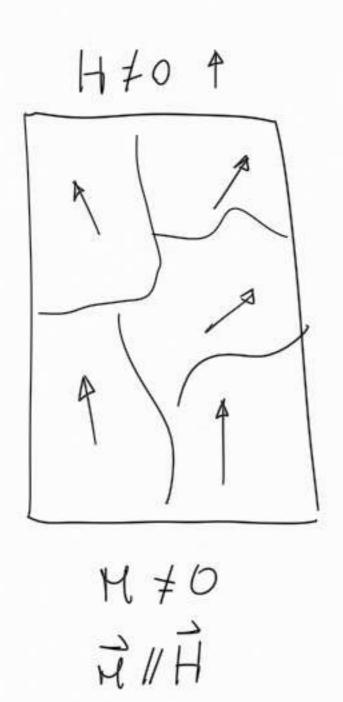


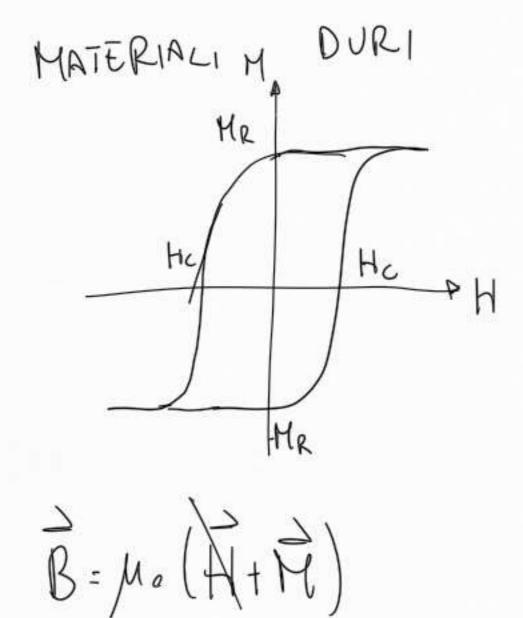


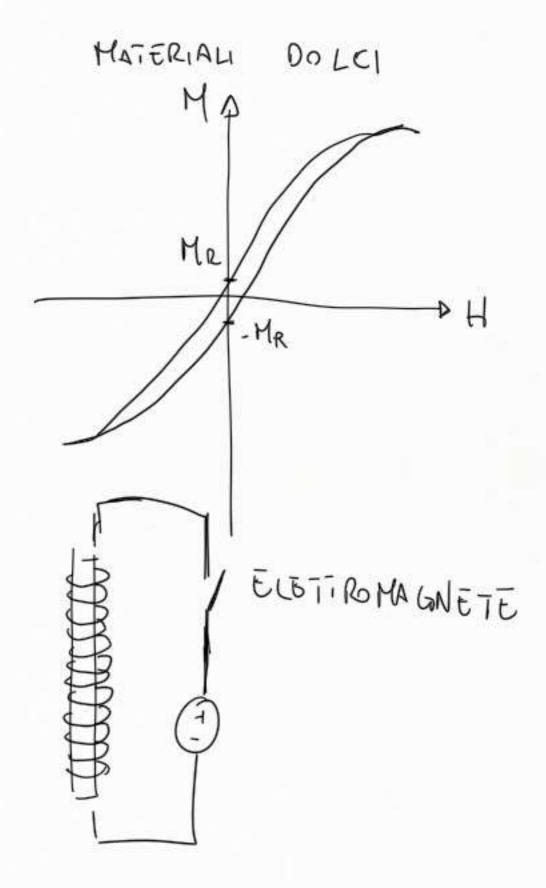
T < To oh Curre

se T>Tc questi materiali son du peramagneti

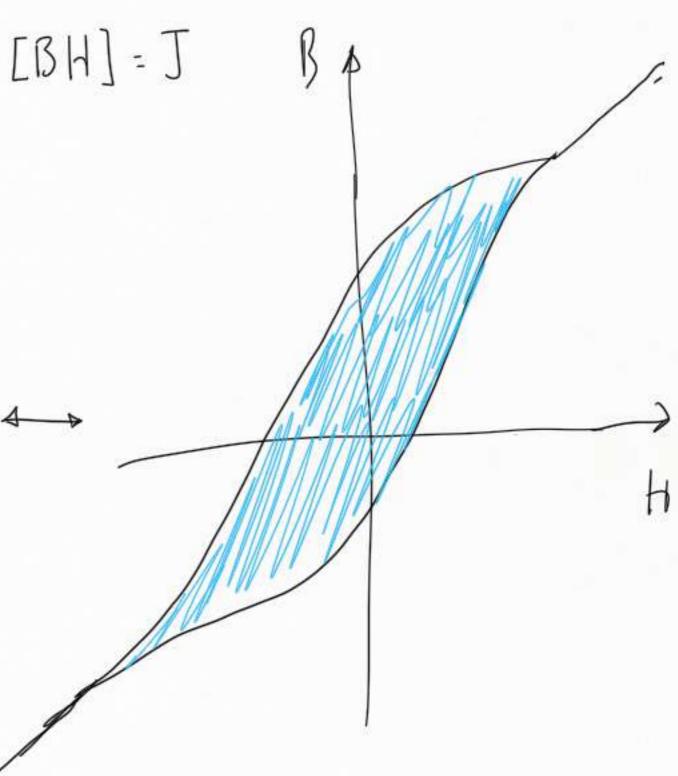




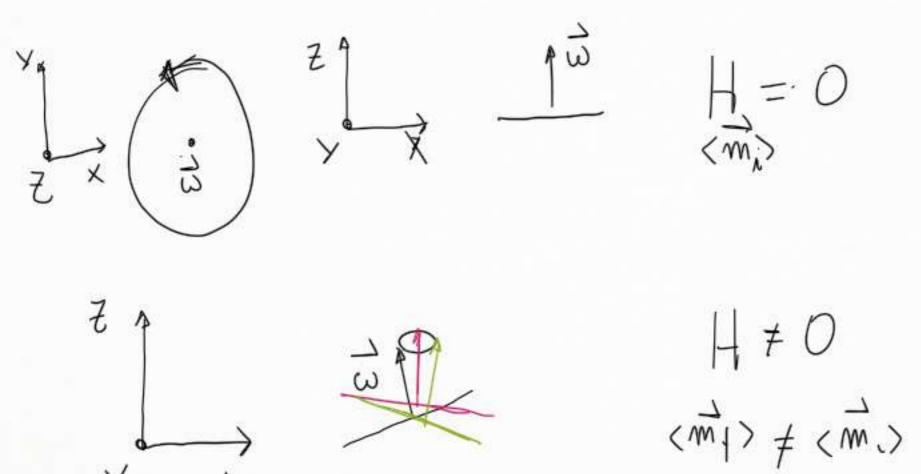


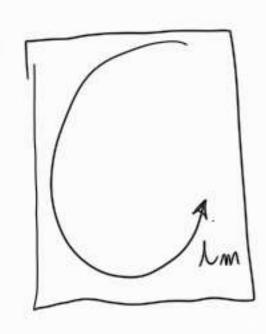


$$\vec{B} = M_0 (\vec{H} + \vec{H})$$
 $\vec{B} = M_0 (\vec{H} + \vec{H})$
 $\vec{B} = M_0 (\vec{H} + \vec{H})$



DI MAGNETIZZAZIONE MECCANISMI precessione di Larmor PERTURBABIONO DOL More orbitact diamagnetismo ELETTRONIO H40 1 MAGNETIZZAZIONE PER ORIENTAMENTO (m) moments of dipoli magnetic medis (per atoms/molecola) $\vec{H} = m < \vec{m} > \leftrightarrow \vec{P} = m < \vec{p} >$





I'm = Mh F=> M = \frac{im}{h} = \frac{Jm}{m} = \frac{A}{m} \neq [

corrente amperiane densità de corrente amperiane

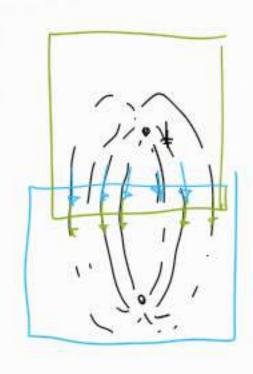
 $\left[\int_{A}^{m} \right] = \frac{A}{m} \neq \left[\int_{A}^{m} \right]$

$$\frac{1}{1} = \frac{1}{1} \times \hat{M} \qquad \longleftrightarrow \qquad \nabla_{\rho} = \hat{P} \cdot \hat{M} \qquad \qquad | H = \frac{3}{1} \cdot \hat{M} \cdot \hat{M}$$

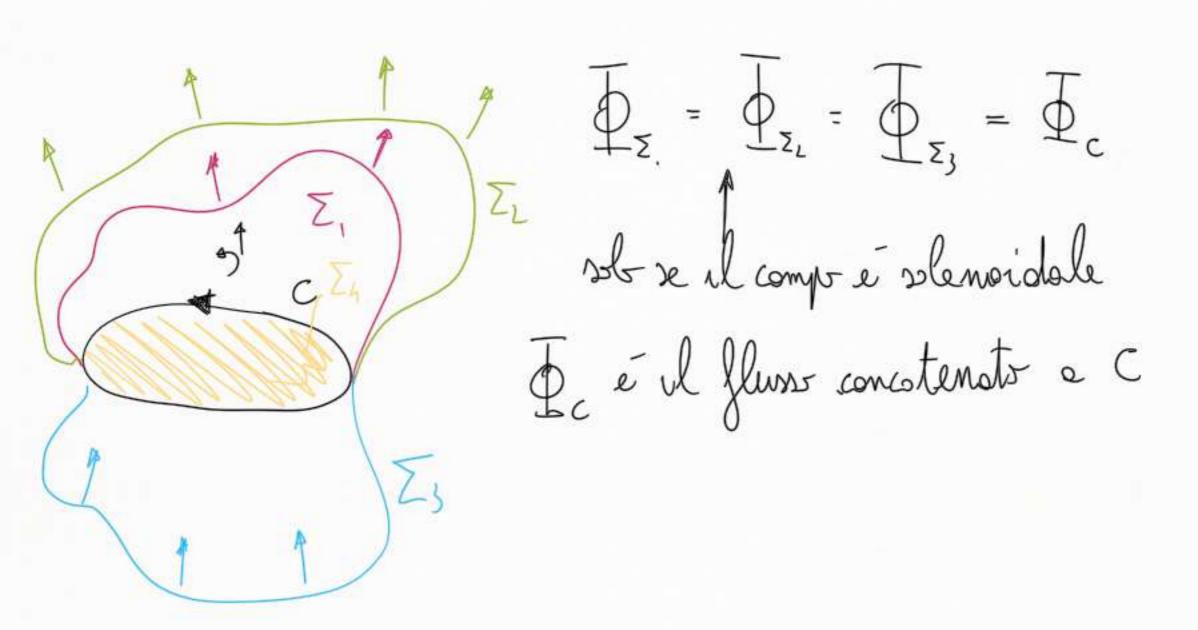
$$\frac{1}{1} = \frac{3}{1} \cdot \hat{M} \cdot \hat{M}$$

δμ.(χ+μ)·d= μ. δμ·d=μ. im => δμ·d= im

LA LĒGGĒ DI GAUSS
$$\left[\frac{1}{3} \cdot \hat{\beta} \cdot \hat{d} \right] = 0 \quad \left[\Phi_{\epsilon}(B) \right] = Tm^{2} = W_{5}$$
weber



Se
$$\Phi_{\Sigma}$$
 é sempre $O \rightarrow \mathcal{U}$ comp é dettr solenordale
$$\begin{array}{c}
\overline{\beta} \cdot \hat{n} \cdot d\Sigma = \int_{\Sigma_{1}, \Sigma_{L}} \overline{\beta} \cdot \hat{n} \cdot d\Sigma + \int_{\Sigma_{1}} \overline{\beta} \cdot \hat{n} \cdot d\Sigma = \\
= \Phi_{\Sigma_{1}}(\overline{\beta}) + \Phi_{\Sigma_{1}}(\overline{\beta}) = O \Rightarrow \Phi_{\Sigma_{1}}(\overline{\beta}) = -\Phi_{\Sigma_{1}}(\overline{\beta}) = \\
\overline{\beta} \cdot \hat{n} \cdot d\Sigma = -\Phi_{\Sigma_{1}}(\overline{\beta}) = -\Phi_{\Sigma_{1}}(\overline{\beta}) = \\
= \overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) + \overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) = -\overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) = \\
\overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) + \overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) = -\overline{\Phi}_{\Sigma_{1}}(\overline{\beta}) = -\overline{\Phi}_{\Sigma_{1}}(\overline{\beta}$$



$$\overrightarrow{\nabla}_{x}\overrightarrow{B} = \mu_{o}\overrightarrow{f}$$
 $\overrightarrow{\nabla}_{x}\overrightarrow{E} = 0$

magnetortatice elettrortatice

$$\left(\begin{array}{c} \overrightarrow{\nabla} \cdot \overrightarrow{A} = 0 \\ \overrightarrow{\nabla} \cdot \overrightarrow{A} = 0 \end{array}\right)$$

$$\left(\overrightarrow{\nabla}_{x} \overrightarrow{h} = \overrightarrow{\uparrow} \qquad \overrightarrow{\nabla}_{x} \overrightarrow{D} = 0 \right)$$