$$\vec{B} = \frac{\mu \cdot i}{4\pi} \oint_{SP,QL} \frac{d\vec{l} \times \hat{v}}{v^2} \longrightarrow \frac{\mu i}{4\pi} \oint_{SP,QL} \frac{d\vec{l} \times \hat{v}}{v^2}, \quad \oint_{C} \vec{B} \cdot d\vec{s} = \mu_n i \longrightarrow \mu i$$

AMPERE - LAPLACE

AMPERE

$$B-B_0 = KmB_0 - B_0 = (Km-1)B_0 = \chi_m B_0 = \chi_m \mu_0 H$$
 $\chi_m = Km-1$ Suscettività Hagnetica

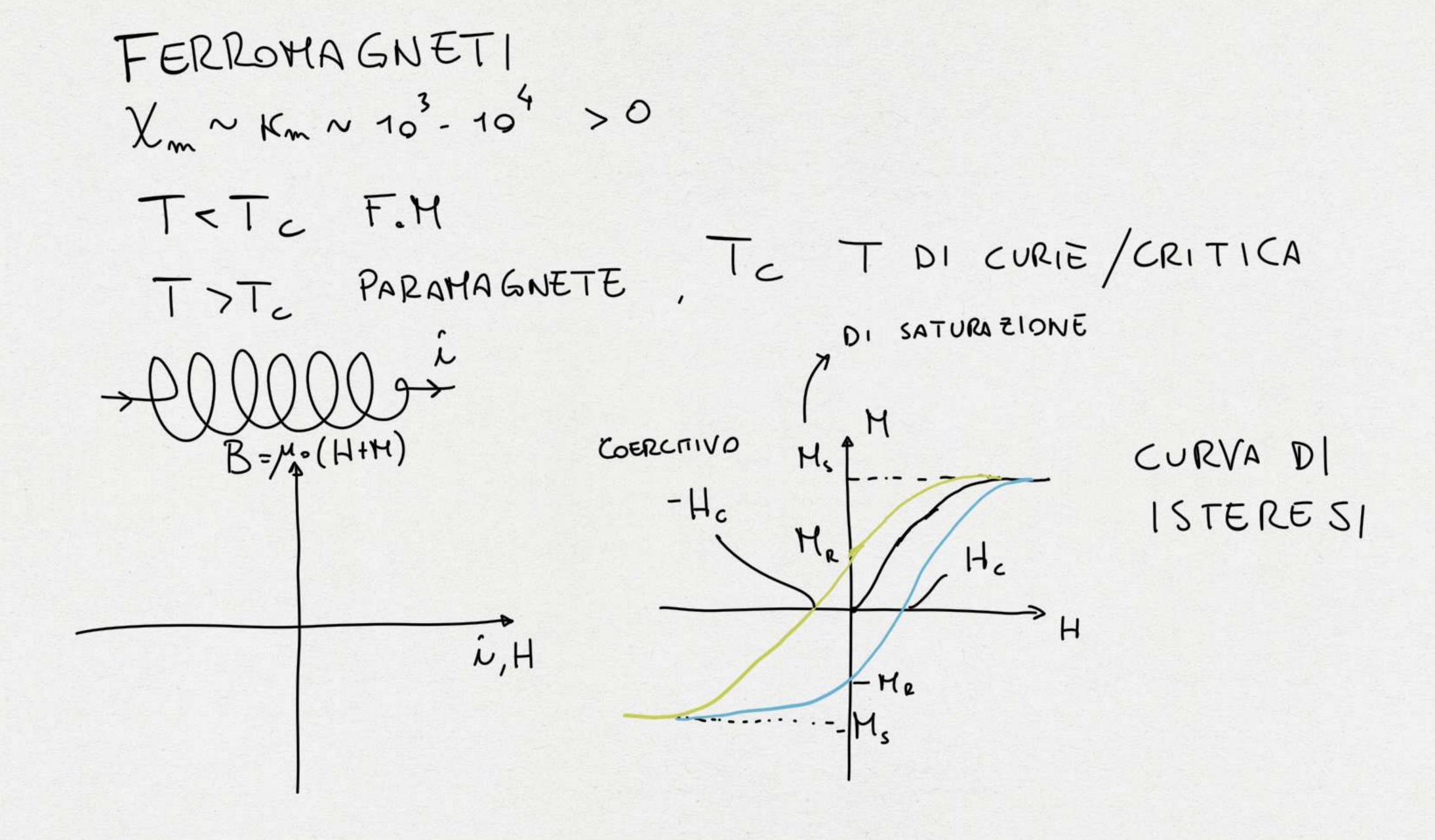
 $\chi_m H = M$ Hagnetizzazione DEL Hateriale

 $B-B_0 = \chi_m \mu_0 H \Rightarrow B = \chi_m \mu_0 H + B_0 = \chi_m \mu_0 H + \mu_0 H = \mu_0 (\chi_m H + H)_{H}_0$
 $B=\mu_0 (M+H) \longrightarrow B=\mu_0 (H+H)$
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DIAMAGNETICHE $\langle \vec{m} \rangle = -\alpha_a \vec{H}, \alpha_a > 0, m = \frac{N}{V}$ $\vec{M} = m < \vec{m} \rangle = -m\alpha_a \vec{H} = \chi_m \vec{H}, \chi_m < 0 \Rightarrow \kappa_m < 1$ $\vec{B} = \vec{B}_a + \chi_m \vec{B}_o \Rightarrow B < B_o, \chi_m \sim -10^{-8} = -10^{-5}$ $\vec{B} = \mu_o m i \hat{x} + \mu_o m i m \hat{x}$

PARAMAGNETICHE (m>= xmH, dm>0 M= M2mH= XmH, Xm>0, Km>1

$$\vec{B} = \vec{B}_0 + \chi_m \vec{B}_0 + \sum_{n=1}^{\infty} \vec{B} > B$$
, $\chi_m \sim \frac{1}{7} L_0 = 666 = DI CURIE$



MODELLO DI ISING

	1	+		
	7	1	7	
1	1	+	7	
		1	1	