

Valence Molecular Field Theory (Exchange Field Theory)

→ B.O.T. in order to explain spontaneous magnetization, Weiss assumed that there exists an exchange field acting on a dipole.

→ $H_{ex} = H_a + H_{ex}$
 $H_{ex} = \chi H_a = \chi H_{ex} \Rightarrow \chi = \frac{1}{1 - \chi}$

$H_a \rightarrow$ Applied field, $H_{ex} \rightarrow$ Exchange field
 $H_{ex} = \chi H_a$ or $H_{ex} = \chi H_{ex}$

$\chi \rightarrow$ Weiss constant, or molecular field constant or induced field constant, & is independent of Temp.

$\chi \rightarrow$ It determines the strength of interaction of magnetic dipoles in a material.



At $T = T_c$, $\chi \rightarrow \infty$ (It means that χ diverges as $T \rightarrow T_c$)

So $T < T_c \rightarrow$ spontaneous magnetization exists (ferromagnetic)

Temperature Dependence

→ Consider a spin system below T_c
 → when $H_a = 0$, in absence of applied field, χ becomes $H_{ex} = \chi H_a$
 where $H_a = H_{ex}$, $\chi \rightarrow$ total magnetic moment, $N \rightarrow$ number of atoms per volume
 → According to quantum theory of paramagnetism, magnetization for spin 1/2 is

$M = N g \mu_B \tanh(\frac{g \mu_B B}{kT})$, $g \rightarrow$ Landé factor $g = 2$ $\frac{2 \mu_B (H_a + \chi H_a) - 2 (kT)}{2 \mu_B (H_a + \chi H_a) - 2 (kT)}$
 $\chi \rightarrow$ total angular momentum of each atom, $\chi = \frac{g \mu_B}{kT}$

For ferromagnetic: $\chi = \frac{g \mu_B N g \mu_B H_{ex}}{kT}$ ($g = 2, \mu_B = 9.27 \times 10^{-24}$)

$\Rightarrow \chi = \frac{g \mu_B N g \mu_B \chi}{kT}$, so assuming it

$M = \frac{N k T}{g \mu_B} \chi$

or $g = \frac{M}{N \chi} + C$ where $C = 0$, so it is straight line

equation with slope $\frac{kT}{g \mu_B}$

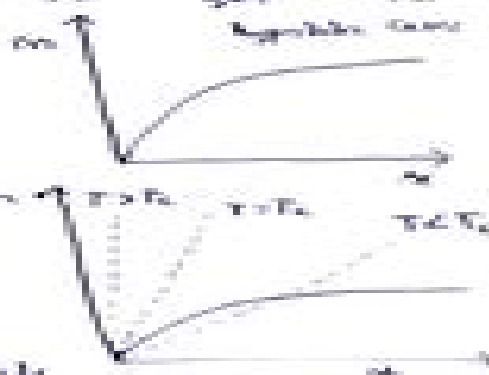
→ At $T = T_c$, slope of straight line $\rightarrow$ (1) For $T < T_c$, 2 - curves intersect which gives spontaneous magnetization

(2) Maximum spontaneous magnetization occurs at $T = 0 K$

or $M = N g \mu_B \tanh(\chi)$ at $T = 0 K$

So, when $T \rightarrow 0$, $\chi \rightarrow \infty$, $\tanh(\chi) = 1$

So $M_s(0) = N g \mu_B$



For $H_a = 0$ (1) For $H_a = 0$

For $H_a = 0$, χ must be maximum

$\tanh(\infty) = 1$

$\tanh(-\infty) = -1$

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