

JUNE 2016						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

$$\vec{S} = -\mu_B \vec{k} \uparrow, \vec{B} \rightarrow$$

$$-\vec{S} \cdot \vec{B} = +\mu_B \vec{k} \cdot \vec{B}$$

$$= \mu_B$$

WEDNESDAY

04

MAY

19th Week 125-241

ϵ_S

Onsager $\rightarrow \sigma(S, B)$

$$= \sigma(-S, B)$$

$$\cancel{\sigma_{eff}} = ck^2 + v_0 k + S_B B_2 \mu_B$$

$$+ \frac{B_2 k_2 v_0}{2k^2}$$

$$\Omega = - \frac{S_B}{2k^2}$$

How is linear term generated.

Basis of ~~term~~ $S_B \mu_B$ term.

$$\sigma(S, B_2) = \sigma(-S, -B_2)$$

is possible.

21 22 23 24 25
28 29 30

MAY

19th Week 127-139

$$[\vec{\omega} + e\vec{B}_1(\vec{n}, \vec{\omega})] \cdot \vec{E}$$

$$\begin{aligned} & [\vec{\omega}_2 + eB_2(\vec{n}, \vec{\omega})]^2 \\ &= (\vec{\omega}_2 + e^2 B_2)^2 (\vec{n}, \vec{\omega})^2 \\ & \quad + 2e B_2 \vec{\omega}_2 (\vec{n}, \vec{\omega}) \\ & \quad \times \frac{\delta(\epsilon_B)}{1 + e B_2^2} \end{aligned}$$

$$\vec{\omega}_2 = (V_0^2 + V_m^2 + V_s^2)^{1/2}$$

$$= V_0^2 + (V_m^2 + V_s^2) + 2V_0V_m$$

$$V_0^2 + V_m^2 + V_s^2 + 2V_m V_s$$

$$+ 2V_0 V_m + 2V_0 V_s$$

\downarrow linear in B \downarrow in linear

02 $(\text{Em}^2 \text{ k}^2 v^2) = \frac{k^2}{k^2} (\text{Ex}^2 + \text{Ey}^2 + \text{Ez}^2)$

03 $\partial_{k_x} (\cdot) = \frac{1}{k^2} \rightarrow (\frac{1}{k^2} + \frac{\partial^2}{k_x^2})$

04 $= \frac{1}{k^2} - \cancel{\frac{2k^2 \cos^2 \theta}{k^2}}$

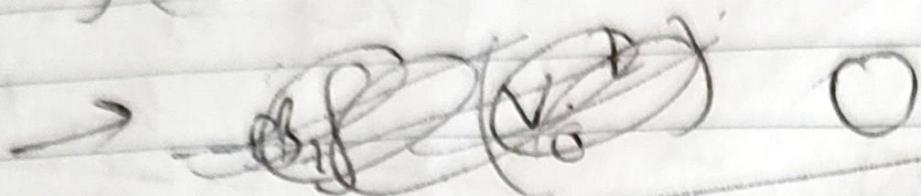
05 \rightarrow will give zero term
 counteracting with N_0 term

MAY

Week 131-235

22	23	24	25	26	27	28
29	30	31				

$$S(V_0) [1 - e^{-B_2 \frac{V^2}{2}}]$$



from ϵ_m some energy \rightarrow

$$\epsilon_m S(-) (V_0)^2 \Delta k_x^2$$

\rightarrow gives zero

from ϵ_s some energy \rightarrow

$$\epsilon_s S(-) (V_0)^2 \Delta k_x^2 \rightarrow$$

\rightarrow gives zero

some B^2

ϵ_m some B^2

$\epsilon_g / \Delta E_S = a$

μ_B

C_S

$\propto J_S$ or $\propto m$

$\propto p$

$\propto T^m$