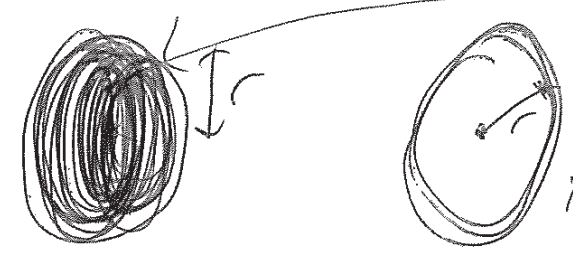


Why Ohm's law

15

12/3/20  
12:15pm

$C_{15}$   $C_{20}$



Singular  
(right)  
dist  
 $F=OVA$

"nothing"  
(relative)

Zero dist

$F=OVA$

$V \neq 0r$

$C_d$   $r$   $C_{dist}$

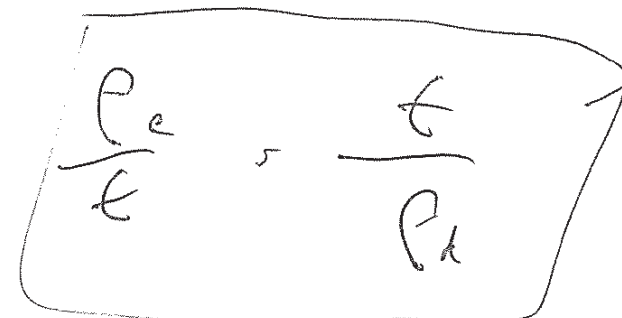
$C_e$   $r$   $C_{emp}$

$C \times t$   $t$   $t_{max}$

then  $C \in [0, \infty)$

NP  
 $E_{in}(t)$  or  
 $E_{out}$   
 $P_{in}(t)$  or  
 $P_{out}$   
both choice  
Junctions etc  
of two spectra

Relationship



fundamental  
doubt of  
connection  
between logarithm  
and time

Other has

$$\frac{C_e}{t} = \frac{t'}{P_d}$$

Ans

$$\frac{C_e}{t} - \frac{t'}{C_d} \leq 0 \quad \forall \lambda$$

but  $\frac{\partial J(\lambda)}{\partial \lambda} = 0 \rightarrow \mu_i$

where

$$\frac{\partial J(\lambda)}{\partial \lambda} = J(\lambda) \leq \mu_i$$

where  $\mu_i \in \mathbb{R}, \lambda_i \in \mathbb{R}$   
Row for a column  
place in  $C_m$

$$\frac{C_e}{t} - \frac{t'}{C_d} \leq \mu_i$$

$\varphi: \mathbb{R}^n \rightarrow \mathbb{R}^n$  is linear  $\left(\frac{1}{n}\right) \Big|_{\mathbb{R}^n \rightarrow \mathbb{R}^n}$  (war  
 linear)

and  $n \in \mathbb{P}_d \vee \mathbb{P}_e$

and  $n \in \mathbb{K}$  isomorphism  $\{\vec{e}_1, \vec{e}_2, \dots, \vec{e}_n\}$   
 then we have

$\varphi(\vec{v}) = \left( \cos\left(\frac{\pi}{n}\right) \right)$   
 $\varphi: \mathbb{R}^n \rightarrow \mathbb{R}^n = \mathbb{I}$   
 $(\mathbb{P}_e, \mathbb{P}_d)$

$n \rightarrow 0 = \mathbb{I}$

$\mathbb{P} \propto n$

$\mathbb{P} \propto \frac{1}{n}$

then  $\varphi(\vec{v}) = A_n$

the things that (6)  
logics

$$C \sim \frac{I_{info}}{X^{\wedge}}$$



early product  
from power pages.

$n \rightarrow$  MVP...

Now

$$\frac{P}{t} \rightarrow \frac{n}{t}$$

but  $\frac{n}{t} \sim$  ref.

also

$$\frac{P}{t} \sim$$

but  $\frac{P_c}{t} \sim \frac{t}{P_c}$

Ans

6

$$\frac{t}{r} = \frac{1}{cf}$$

or

$$\frac{1}{cf} = \frac{rd}{t}$$

Ans

$$\frac{1}{c} = \frac{rd^2}{t}$$

$$p \rightarrow \frac{1}{p} \quad R \rightarrow \frac{1}{R}$$

$$c = \frac{rd^2}{t} \rightarrow \textcircled{B}$$

~~Ans~~

Writing

6

$$P \sim \frac{\hbar J}{x^N}$$

$$\frac{\hbar J}{x^N} \sim n f^2$$

$$\hbar J \sim n x^N f^2$$

Let's take  $N=2$  D  
 $\sim E_1 \sim n x^2 f^2$

We have a

eqn for energy

Also from simple dualities  
we can see how the  
big bang may have  
produced a specific of

reddy.

6

Using a gem

$$f = \frac{1}{t}$$

$$\frac{\partial}{\partial t} \psi_i = \left( t \rightarrow \frac{1}{t} \right) \psi_i$$

are on do a

little algebra and

show some logic to

say

that the inputs to  $\psi_i$

play a role in  $\psi_i$   
the current course.

For

$$z \in \mathbb{C} \quad (\text{non-zero})$$

$$z = x + iy$$

$$z = x + iy \quad (x, y \in \mathbb{R})$$

$$\bar{z} = x - iy$$

$$z = r e^{i\theta}$$

$$\bar{z} = r e^{-i\theta}$$

let  $\theta = \phi$

it denotes oscillate

$$\ln z = \ln r + i\theta$$



and

$$\frac{p}{c} - \frac{t}{p} = \rho_i$$

$$\frac{t}{p} = 0$$

st

$$\rho = \epsilon \rho_i \rightarrow$$



we have

$$Z = r e^{it \rho_i}$$

$$\bar{Z} = r e^{-it \rho_i}$$

expanding  $Z \bar{Z}$  in time

we get  $Z \bar{Z} = r^2$

and we have

$$|Z - \rho_i| \rightarrow 10 \text{ v.o.}$$

$$|Z + \rho_i| \rightarrow 10 \text{ v.o.}$$

we know for the case  $z = y_c$  for (10)  
 $z = y_c$  is ~~not~~

~~$s = r + i\omega$~~

$$r e^{i\omega} - \mu_i = z - \mu_i$$

for  $\leftarrow$  so

$$\text{if } z = \mu_i \text{ then } r = \mu_i$$

for

$\leftarrow$   $\rightarrow$  so

~~$$|z + \mu_i| = r e^{i\omega} + \mu_i$$~~

~~$$r = \mu_i$$~~

Ans

(11)

for  $t \rightarrow \infty \rightarrow e^{-i\omega t} e^{i\omega t}$

$$z \bar{z} = r^2$$

but for

$$(z - \mu)(z + \mu)$$

$$= z^2 - \mu z + \mu z - \mu^2$$

$$= z^2 - \mu^2$$

which we can equate  
with

$$z^2 - \mu^2 = h(\omega)$$

MS

$$(z - \mu)(z + \mu)$$

Should form a semi-circle

Using the given (12)  
 Lagrange equation structure.  
 Let

$$E_{CH}^{\pm n} = \beta S E^{\pm n}$$

where  $\pm n$  is a dividend integer  
 index (Both  $E$  or  $\beta$  select  
 values) + time dependent  
 we have the Hamiltonian

$$E_{CH}^{\pm n} + \beta i^{\pm n} S H$$

$$L_3 = E + z + p$$

(A difference that can be seen)

$$\beta \leftrightarrow z + p \quad z - p$$

As is choosing for a  
 system from  $z$  or  $z + p$

$$(E - \beta)(E + \beta)$$

(13)

•  $[E^2 - \beta^2]$  Energy  $\propto \{I, p, c, D\}$

when  $(E^2 - \beta^2)$  [Sudra]

implies  $E$  and  $\beta$  are  
 equal twice  $\beta$

$$\beta \propto \beta \propto \beta$$

$$z - \mu_i \propto h/\omega$$

$$z - h/\omega \propto \mu_i$$

$$\rightarrow \frac{d}{d\omega} A - h/\omega \propto \mu_i$$

$$\{E - \beta\} \propto h/\omega$$

$$z \{E - \beta\} \propto z \pm \mu_i$$

$$C \sim \epsilon \mu_0 \hbar \ln \Omega_i$$

(4)  
(19)

$$\beta \quad \epsilon \rightarrow \frac{1}{\epsilon}$$

Lagrange's kinetic - potential

$$\sim E - \beta$$

Then

$$f \sim \epsilon \mu_0$$

$$C \sim \frac{1}{\epsilon \mu_0} \sim f \mu_0$$

$$\text{st } E_{i+\hbar} \approx \hbar \omega_i \sim \int \omega_i \quad \text{See (D)}$$

which is the kinetic energy

Using the wave function

$$\psi(x, t) \sim \psi(x) e^{-i E_i t / \hbar}$$

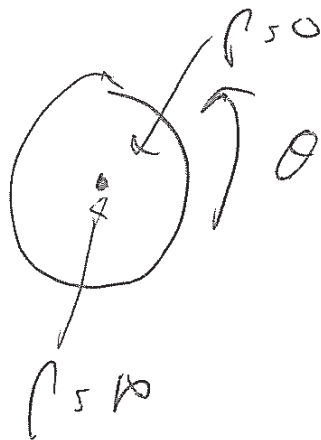
with suitable demand constants

Obs due to



A Black hole should be  
 static (as observed).  
 A black hole  
 is rotating.

$$\frac{\partial Q}{\partial t} \rightarrow \frac{\partial Q(\theta)}{\partial \theta}$$



~~$$\frac{\partial Q}{\partial t} \rightarrow \frac{\partial Q(\theta)}{\partial \theta}$$~~

$\frac{\partial}{\partial \theta} \theta \rightarrow \text{oth}$

① -

for a Black hole

$$\frac{P_d}{\epsilon} = \frac{t}{P_c} \text{ s } \mu_i$$

$z - \mu_i = h(\nu)$

3) ↓                      ↓

② -  $\{E - \beta\}$  Energy s Struktur

So for a Black hole

$$P_{ofc} = \frac{1}{\epsilon_i} \epsilon_j \text{ s } \mu_i$$

$$\epsilon_j \rightarrow \frac{1}{\epsilon_i}$$

$$P_{ofc} = \epsilon_i \epsilon_j \text{ s } \mu_i$$



and I why

(7)

$$7 - \pi \rightarrow \frac{20}{20} - 400$$

the the should be

no change in the

structural frequency of

a black hole when

rotating goes from

that which flattens the

sphere.

that is black holes that

not "pulse" or if 5

at a constant  $\pi$ .

a wave like (18)  
pulses

$$\omega \rightarrow \frac{1}{\tau} \rightarrow f$$

changes and

$$E \propto \hbar \omega \propto \hbar f$$

changes to energy

is not conserved.

then

$(E - V)(\vec{r}, \vec{p})$  is the Lagrangian

function of position

$$[Kinetic - potential](position) = E$$

Then

$$(E - \beta)_{m \times n}$$

mass spectrum

$$\propto x^n$$

$$(E - \beta) \propto x^n$$

where  $n$  is dimension

s) a change in energy

or a black hole //

a change in dimension (n)

Ans) a gamma of energy

is a product of a

change in energy

Thus

60

$\Delta$  Energy  $\sim \Delta$  dimensions

refers

- level shifts  
at levels.

NB id conservation (mass  $\vec{c}$ )  
requ / add, mass  
dimension change or does

$$E - P$$

NB n previous page

$$(E - P)^{ON} \Rightarrow N \text{ times } [E_1 - P_1] \cdot [E_2 - P_2] \cdot [E_3 - P_3] \dots \text{etc.}$$