

# **Einstein Is Wrong [?] But Einstein Is [Also] Right [?]**

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## **Abstract**

This paper proves that:

- 1) Special theory of relativity is mathematically wrong.
- 2) Effect of special theory of relativity is true in one direction that is due to the property of subspace.
- 3) Space & vacuum are different. This concept solves the problem of dark matter, dark energy & big bang.
- 4) We already know that Standard model of particle physics is not perfect & there are complete zoo of particles present in the world. I have given alternative to this concept of standard model which can explain the dark matter particle.



EINSTEIN IS WRONG BUT . . .

EINSTEIN IS RIGHT

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## Preface

This paper proves that

- 1) Special theory of relativity is mathematically wrong.
- 2) Effect of special theory of relativity is true in one direction that is due to the property of subspace.
- 3) Space & vacuum are different. This concept solves the problem of dark matter, dark energy & big bang.
- 4) We already know that Standard model of particle physics is not perfect & there are complete zoo of particles present in the world. I have given alternative to this concept of standard model which can explain the dark matter particle.
- 5) Photon is the bundle of energy. It has no mass, total energy is kinetic energy, present in wave & particle form. Even single photon will create interference pattern. How all are happened. I explain that in last chapter.

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# .1. Einstein's special relativity is wrong.

Special theory of relativity is also wrong :-

## FORCES IN SPECIAL THEORY OF RELATIVITY MAKE SPECIAL THEORY OF RELATIVITY WRONG

(Special theory of relativity is very great & close theory. If we prove one thing in this theory is mathematically wrong then whole theory gets collapsed because all mathematics of the total theory are interlinked. So, If we prove acting force is different than applied force or energy consumed is different than energy produce then whole special theory get collapsed because same mathematics can be used to prove transformation equation of forces for relativity , same mathematics can be extended & can be used to prove  $dE = \gamma \cdot dE$  or  $dM = \gamma \cdot dM_0$ . etc)

### CALCULATION 1:- FORCE WITHOUT ACCELERATION, ACCELERATION WITHOUT FORCE & APPLIED FORCE IS LESS THAN ACTING FORCE IN SPECIAL THEORY OF RELATIVITY.

STEP 1:-This problem can easily be understood by following paradox.

{ Before starting this paradox, I want to put one relativity formula's given in standard book of relativity for example `Page no. 135 of Elements of special relativity\_ by Dr T.M. Karade, Dr K S Adhav & Dr Maya S Bendre.

In any frame, for force in X -direction by S.R.

$$F_x = \frac{d}{dt}(\gamma \cdot m_0 \cdot u_x) \text{ where } \gamma = (1 - u^2/c^2)^{-0.5}$$

So, after differentiation

$$F_x = \gamma \cdot m_0 \cdot \left(\frac{du_x}{dt}\right) + \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} \cdot (u \cdot \frac{du}{dt})$$

$$F_x = \gamma \cdot m_0 \cdot a_x + \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} \cdot (u \cdot a) \text{ -----(A)}$$

We know,  $u^2 = u_x^2 + u_y^2 + u_z^2$

So, after differentiation

$$2 u \cdot \left(\frac{du}{dt}\right) = 2 \cdot u_x \left(\frac{du_x}{dt}\right) + 2 \cdot u_y \left(\frac{du_y}{dt}\right) + 2 \cdot u_z \left(\frac{du_z}{dt}\right)$$

$$2 u \cdot a = 2 \cdot u_x a_x + 2 \cdot u_y a_y + 2 \cdot u_z a_z$$

$$u \cdot a = u_x a_x + u_y a_y + u_z a_z \text{ -----(B)}$$

from (A) & (B)

$$\text{So, } F_x = \gamma \cdot m_0 \cdot a_x + \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} (u_x a_x + u_y a_y + u_z a_z) \text{ -----(1)}$$

Now, Consider Paradox:-

On frictionless platform, object is moving with constant velocity  $u_x$  in X-direction & only magnetic force is acting in Y-direction & there is acceleration in Y-direction only with velocity  $u_y$  &  $F_z = 0$

If we apply eq(1) to this case then result will be

$$F_x = \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} u_y a_y \text{ ----- as } a_x = 0$$

Or  $F_x = F_y$  as this force is form due to  $a_y$  only

Mean's even there is no magnetic force acting on object from outside in x-direction & no  $a_x$  then also above force will act on object in +ve direction of x-axis due to  $a_y$

Important point (1):-

Mean's applied magnetic force on object in X-direction is 0 & acting force in X-direction is  $F_x = \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} u_y a_y + 0$  or  $F_y + 0 = F_x$

STEP 2:-Now, Force acting in X-direction is  $F_x = \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} u_y a_y$  or  $F_y$

Now, after this happen, very small magnetic force of same intensity

$-f_x = -\gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} u_y a_y$  or  $-F_y$  start acting on object in direction opposite to above force (but velocity is still positive  $u_x$ ) & cancel that above force.

Mean's equation (1) becomes

$$0 = \gamma \cdot m_0 \cdot a_x + \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} (u_x a_x + u_y a_y)$$

$$\text{Or } 0 = \gamma \cdot m_0 a_x \cdot \left(1 + \gamma^2 \cdot \left\{\frac{u_x^2}{c^2}\right\}\right) + F_y$$

(Here as  $F_y = \gamma^3 \cdot m_0 \cdot \left\{\frac{u_x}{c^2}\right\} u_y a_y$ )

$$\text{Mean's } F_y = \gamma \cdot m_0 \cdot -a_x \cdot \left(1 + \gamma^2 \cdot \left\{\frac{u_x^2}{c^2}\right\}\right)$$

Mean's there must be acceleration in -ve X-direction to fulfill above equation of S.R.

Now, see above equation carefully, it is of nature

$$0 = -f_x + F_{ay}$$

Important point (2):- Mean's applied magnetic force on object in X-direction is  $-f_x$  & acting force in X-direction is  $-f_x + F_{ay} = 0$  or 0.

Here, resultant force in X-direction is zero but there is acceleration in  $\bar{v}$  direction.

---

STEP3:- same things happen for +ve force in X-direction (for less than  $F_{ay}$  or more)

Now, I am generalizing above result.

Step 1 & 2 clearly shows that when we apply any magnetic force ( $F_{mx}$ ) in X-direction on the object, actual force acting on object is more & that quantity is  $(F_{mx} + F_{ay})$

Similarly,

If we apply any magnetic force ( $F_{my}$ ) in Y-direction on the object then actual force acting on object is more & that quantity is  $(F_{my} + F_{ax})$

This is completely complicated results, which says that applied force & acting forces on objects are different & more in S.R.

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STEP4:- Force does work, consume energy, gain energy & we must know that energy cannot be created. It can be transferred only:-

From above setup it must be clear that energy get transfer from magnet to object but if applied force is less than acting force then energy gain by the object will be more than energy loose by the magnet. Means due to more work done by more force for same displacement, more energy get generated.

HERE, more energy (& force) is the problem.

Where this additional energy (or force) does comes from?

There is no answer in S.R. for this problem.

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### THIS MATHEMATICS PROVES THAT THE S.R. IS COMPLETELY WRONG:-

In S.R., force is not related to change in the state of motion or acceleration as Newton consider but with change in moment.

So, even I move towards falling ball,

$f_x = \gamma^3 m_0 \cdot (u_x/c^2) \cdot u_y \cdot a_y$  ----- this force will act on the ball.

& Direction of applied force is different than acting force.

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If this mathematics is true then if old man pulls the cart on horizontal platform with force  $f$  and  $f_x$ ,  $f_y$  are their components in X & Y direction respectively

Then above calculation says that actual forces acting on the cart are not  $f_x$ ,  $f_y$  but

$$F_x = f_x + \gamma^3 m_0 \left( \frac{u_x}{c^2} \right) u_y a_y = f_x + F_{may}$$

$$\& F_y = f_y + \gamma^3 m_0 \left( \frac{u_y}{c^2} \right) u_x a_x = f_y + F_{max}$$

This will create further problem because if  $F$  is actual force acting on the cart then

$$F^2 = F_x^2 + F_y^2$$

$$F = (f_x^2 + f_y^2 + F_{max}^2 + F_{may}^2 + 2 \cdot f_x \cdot F_{may} + 2 \cdot f_y \cdot F_{max})^{0.5}$$

$$F = (f^2 + F_{ma}^2 + 2 \cdot f_x \cdot F_{may} + 2 \cdot f_y \cdot F_{max})^{0.5}$$

So, here actual force acting cannot be equated to the sum of resultant force applied by old man i.e.  $f$  & resultant of additional force created by  $F_{may}$  &  $F_{max}$ .

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Above mathematics proves that

- 1) Acting force is different than applied force.
- 2) Energy consumed is less than energy produce

Proof:-

Applied force < acting force  $\checkmark$  ..(Already proved)

So, in this inertial frame

So, (Applied force X displacement) < (acting force X displacement).

So, Energy consumed < energy produce.

This is against the law of consistency of energy.



3) Above mathematics proves that even there is zero force acting on object then also body will accelerate in -ve x-direction.

Mathematics of step 2 proves that for applied force 0 to -fx,

Acting force direction is +ve & acceleration direction is -ve

4) If above calculation is proved then

a) Transformation equation of forces in special relativity is wrong.

As same mathematics if extended, gives transformation equation in relativity

For example:-

So, if

$F_x = \frac{d}{dt} ( \gamma \cdot m \cdot U_x )$  where  $\gamma = (1 - u^2/c^2)^{-0.5}$  This equation is wrong then

$F_x = \gamma \cdot ( F_x - (v/c^2) \cdot F_y \cdot U_y ) / (1 - v \cdot U_x/c^2)$  ----transformation equation in relativity is wrong because..

If this differentiation  $\frac{d}{dt} ( \gamma \cdot m \cdot U_x )$  extended by proper

transformation equations of frame like putting equations of  $U_x, \gamma$  &

$\frac{d}{dt}$  then we can prove that

$F_x = \gamma \cdot ( F_x - (v/c^2) \cdot F_y \cdot U_y ) / (1 - v \cdot U_x/c^2)$  ----transformation equation in relativity.

So, if  $F_x = \frac{d}{dt} ( \gamma \cdot m \cdot U_x )$  where  $\gamma = (1 - u^2/c^2)^{-0.5}$  is wrong then above transformation equation for force is wrong.

b)  $dE = \gamma \cdot dE_0$  is wrong

Proof:-

$$\text{As, } F_{\check{x}} = F_x + (\gamma v/c^2 \cdot F_y \cdot U_y)/(1 - \gamma v \cdot U_x/c^2)$$

$$F_{\check{y}} = (F_y/\gamma) / (1 - \gamma v \cdot U_x/c^2) \text{ ----transformation equation in relativity.}$$

NOW, CONSIDER ONE EVENT:-

Consider ball is falling under gravity in cabin with vertical force  $F_y$  only then by above transformation equation of relativity

For person on platform.

$$F_{\check{x}} = (U_y \cdot v/c^2) \cdot F_y \quad \& \quad F_{\check{y}} = (F_y/\gamma) \text{ -----(1)}$$

$$\text{As } F_x = 0 \ \& \ U_x = 0$$

Similarly,

$$d\check{y} = dy \text{ -----(2)}$$

$$d\check{x} = \gamma (dx + v dt)$$

As  $dx = 0$  in rail cabin frame.

$$d\check{x} = \gamma v dt \text{ -----(3)}$$

Now, Energy consume in this event by observer on Platform :-

$$d\check{w} = F_{\check{x}} d\check{s} = F_{\check{x}} \cdot d\check{x} + F_{\check{y}} \cdot d\check{y}$$

put the values (1), (2) & (3)

$$d\check{w} = \gamma v dt \cdot (U_y \cdot v/c^2) \cdot F_y + dy \cdot (F_y/\gamma)$$

$$d\check{w} = F_y \cdot \{ \gamma v dt \cdot (U_y \cdot v^2/c^2) + dy/\gamma \}$$

$$d\check{w} = F_y \cdot dy \cdot \{ \gamma \cdot v^2/c^2 + 1/\gamma \}$$

$$d\check{w} = \gamma \cdot F_y \cdot dy$$

In Rail cabin force acting is  $F=F_y$  & displacement  $ds = dy$  only.

So,  $d\tilde{W} = y \cdot dW_0$

So,  $d\tilde{E} = y \cdot dE_0$

So, if above mathematics & force transformation is wrong then above calculation is also wrong because special theory of relativity is interlinking theory. If we prove one thing is mathematically wrong then whole theory is collapsed.

5) If  $d\tilde{E} = y \cdot dE_0$  is wrong then

$d\tilde{E}/c^2 = y \cdot dE_0/c^2$  is wrong.

So,  $d\tilde{M} = y \cdot dM_0$  is wrong.

CALCULATION 2:- Relativity is so wrong. It can be proved that there can be acceleration without force again by other mathematics.

Example is given below

In prime frame, if  $F_z = 0$  & ratio  $F_x/F_y$  is equal to  $(v/c^2 \cdot U_y)/(1 - V \cdot U_x/c^2)$  then after transformation in  $S'$  frame  $F'_x$  becomes  $F'_x = 0$  because

$F'_x = F_x - (v/c^2 \cdot F_y \cdot U_y)/(1 - V \cdot U_x/c^2)$  -----transformation equation in relativity

In frame S :- Now, just consider that on one magnetic substance on frictionless platform magnetic forces are acting in X-direction & in Y-direction. Magnetic force  $F_x$  is so adjusted by software program that ratio  $F_x/F_y$  is always equal to  $(v/c^2 \cdot U_y)/(1 - V \cdot U_x/c^2)$ .

Then, Forces  $F_x$  (very small) &  $F_y$  in this frame will create acceleration  $a_x$  &  $a_y$  in direction  $x$  &  $y$ .

Observer frame  $S'$  is moving with velocity  $V$  with relative to frame  $S$  then in frame  $S'$ :-

There is acceleration in  $X'$  direction because  $a_x' = a_x / \{r^3 \cdot (1 - u_x \cdot v/c^2)^3\}$

where  $r = 1 / (1 - v^2/c^2)^{0.5}$  but there is no force in  $X'$  direction because

as  $F_x' = F_x - (v/c^2 \cdot F_y \cdot U_y) / (1 - V \cdot U_x/c^2)$  & as

$F_x/F_y = (v/c^2 \cdot U_y) / (1 - V \cdot U_x/c^2)$

So,  $F_x' = 0$

Means, in this case in frame  $S'$  there is acceleration in  $X'$ -direction but no force is present in  $X'$ -direction.

Means, some ghost force will accelerate substance in direction  $X'$  in frame  $S'$ .

Can you call this as physics?

Above calculations shows that special theory of relativity is wrong. In coming chapter, I discuss about other problems of special theory of relativity.

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CALCULATION 3:- MATHEMATICS WHICH PROVES THAT CONSUMPTION OF ENERGY IN DOING WORK DECREASES AS RELATIVE FRAME VELOCITY

INCREASES:-

$$F'_x = F_x - \frac{\frac{V}{c^2} (F_y v_y + F_z v_z)}{1 - \frac{V v_x}{c^2}}$$

$$F'_y = \frac{F_y}{\gamma \left(1 - \frac{V v_x}{c^2}\right)}$$

$$F'_z = \frac{F_z}{\gamma \left(1 - \frac{V v_x}{c^2}\right)}$$

ARE TRANSFORMATION EQUATIONS OF FORCES IN S.R.

Let consider that old man A pull the cart B from pole 1 to Pole 2 on platform by standing at pole 2 with rope of length AB. Observers are on platform & in the train moving with velocity V then

1) When AB (displacement) parallel to the direction of train velocity.

Then, for observer on platform:-

so,  $F_y = F_z = 0$  ,  $dx = L(AB) = \text{length of rope which has to be pulled}$

$F_x = \text{tension in rope}$

& Work done  $W = F_x \cdot dx$  -----(1)

for observer on train :-

$F'_x = F_x - \left(\frac{v}{c^2} \cdot F_y \cdot U_y\right) / \left(1 - \frac{V \cdot U_x}{c^2}\right) = F_x$  as  $F_y = 0$  by force transformation equation of

S.R..

Here, as one meter in X - direction in S-frame is equal to  $1/\gamma$  meter in  $S'$  - frame in X -direction

&  $dx' = L(AB)' = dx/\gamma$  where  $\gamma := (1 - V^2/c^2)^{-0.5}$

So,  $W' = F'_x \cdot dx' = F_x \cdot dx/\gamma := W/\gamma$

So,  $W' = W/\gamma$

Case 2 :- When AB perpendicular to velocity of train

for observer on platform :-

$$F_x = F_z = 0 \quad dy = L(AB) \quad \& \quad dx = 0$$

$F_y =$  tension in rope

$$\text{Work done } W = F_y \cdot dy$$

for observer in train :-

$$F'_y = (F_y / \gamma) / (1 - V \cdot U_x/c^2) = F_y / \gamma \quad \therefore \quad \text{as } U_x = 0$$

$$\& \quad dy' = dy \quad \text{as it is perpendicular to } V \quad \& \quad dx' = dx / \gamma \quad \therefore \quad 0$$

$$\text{Work done } W' = F'_y \cdot dy' = (F_y / \gamma) \cdot dy = W / \gamma \quad \therefore$$

$$W' = W / \gamma \quad \therefore$$

Case 3:- Consider that old man pull the cart on platform from pole 1 to pole 2 in any direction

$F_x, F_y, dx, dy$  are tensional forces & rope get pulled on the platform in X & Y direction then

For observer on platform:-

$$\text{Work done } W = F_x \cdot dx + F_y \cdot dy$$

For observer in train :-

$$F'_x = F_x - (v/c^2 \cdot F_y \cdot U_y) / (1 - V \cdot U_x/c^2)$$

$$F'_y = (F_y / \gamma) / (1 - V \cdot U_x/c^2) \quad \text{-----from transformation equation.}$$

$$W' = F'_x \cdot dx' + F'_y \cdot dy'$$

$$W' = \{ F_x - (v/c^2 \cdot F_y \cdot U_y) / (1 - V \cdot U_x/c^2) \} \cdot dx' + \{ (F_y / \gamma) / (1 - V \cdot U_x/c^2) \} \cdot dy'$$

Here, as one meter in X - direction in S-frame is equal to  $1/\gamma$  meter in S' - frame in X -direction

So,  $dx' = dx / \gamma$  &  $dy' = dy$  &

If  $m = (1 - V \cdot U_x/c^2)$  then

$$W' = (1/\gamma) \cdot \{ F_x \cdot dx - (F_x \cdot V/c^2 \cdot U_x \cdot dx) - (F_y \cdot v/c^2 \cdot U_y \cdot dx) + F_y \cdot dy \}$$

$$W' = (1/\gamma) \cdot \{ F_x \cdot dx(1 - V \cdot U_x/c^2) + F_y \cdot (dy - v/c^2 \cdot U_y \cdot dx) \}$$

$$W' = (1/\gamma) \cdot \{ F_x \cdot dx(1 - V \cdot U_x/c^2) + F_y \cdot dt(U_y - v/c^2 \cdot U_x) \}$$

$$W' = (1/\gamma) \cdot \{F_x \cdot dx \cdot (1 - V \cdot U_x/c^2) + F_y \cdot dt \cdot U_y \cdot (1 - V \cdot U_x/c^2)\}$$

$$W' = (m/\gamma) \cdot \{F_x \cdot dx + F_y \cdot dt \cdot U_y\}$$

$$W' = (m/\gamma) \cdot \{F_x \cdot dx + F_y \cdot dy\}$$

$$W' = 1/\gamma \cdot \{F_x \cdot dx + F_y \cdot dy\} = 1/\gamma \cdot W$$

$$\text{Or } W' = W/\gamma$$

This clearly shows that in all cases  $W' = W/\gamma$ .

$$\text{Means } dE' = dE/\gamma$$

This shows that as energy holding capacity of frame decreases as frame velocity increases.

This happens because Force perpendicular to  $V$  decreases & space gets contracted in direction of  $V$ .

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## .2. Space & vacuum are different & space create the reference frame

One day, A uthor was writing something on paper & he got this idea. Can we write something in vacuum? No, we cannot write anything in vacuum because vacuum has no meaning. We require some paper to write. Similarly, this world is also very beautiful story written on paper called space & cannot be written in vacuum.

Means, space is different than vacuum then one question arises. What is the space?

Same problem is arises when I proved that special theory is mathematically wrong .

If Special theory of relativity is wrong then velocity of light will not be same with different observer then how will we satisfy Maxwell wave equation by alternative mathematics & Mickelson-Morley experiment, which prove that velocity of light is constant in all direction on earth.

This all problems can be solved by the simple way. For example, Electron in the Atom of substance always expresses our velocity with relative to electromagnetic flux of atom acting on it. Whatever may the velocity of substance be with related to anybody. Velocity of electron around nucleus remains same until exited.



This is true for Photon also, when Photon is in glass substance, it express our velocity with related to electromagnetic flux of glass (combine balance fields of all particles of glass). So, glass may have any velocity with related to other substance but this velocity of photon with relative to glass remains same in all direction inside the glass.

Same thing happen on earth, just consider only negative charge of electrons of earth then very high  $\bar{v}$ e electrical flux is present around it. This flux is balance by +ve protons flux & resultant is balancing of opposite flux. This balance electromagnetic flux & gravity is present all around Earth. This creates local space for substances & particles on earth. All elementary particles & photon express our velocity with related to this flux. This is reason for getting velocity of light C on earth in all direction. This is not due to SR but due to property of photon & local space.

I said that electromagnetic flux around big mass creates space. One may asked that can we calculate it around earth. I can prove that this is possible.

for example at 100000 km from earth

I have done some calculation

No of protons on earth =  $\frac{5.92 \times 10^{24}}{1.67262 \times 10^{-27}} = 3.53935 \times 10^{51}$  Nos

$$1.67262 \times 10^{-27}$$

(considering neutron can be split in to proton & electron pair)

+ve Charge on earth due to protons =  $3.53935 \times 10^{51} \times 1.6 \times 10^{-19}$

=  $5.66297 \times 10^{32}$  Coulombs

Attraction force on ball carrying one coulomb of -ve charge at distance of 100000

km from earth

=  $\frac{8990000000 \times 5.66297 \times 10^{32}}{100000000 \times 100000000}$

=  $5.09101 \times 10^{26}$  N

This calculation shows that even at the distance of 100000 km earth's proton applies very powerful attractive charge force but this force is balanced by force applied by total electrons on earth in opposite direction.

Means, very powerful balanced electromagnetic flux is present around earth at very very long distance also.

This balanced electromagnetic charge flux at long distance must carry gravity.

This creates the effect of dark matter (additional gravity due to space)

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Electron space & earth space are equivalent :-

Atom space	Earth space
<p>1) Electron in the Atom of substance always expresses our velocity with relative to electromagnetic flux of atom acting on it. Whatever may the velocity of substance be with related to anybody. Velocity of electron around nucleus remains same until exited.</p>	<p>1) Same thing happen on earth, just consider only negative charge of electrons of earth then very high <math>-ve</math> electrical flux is present around it. This flux is balance by <math>+ve</math> protons flux &amp; resultant is balancing of opposite flux. This balance electromagnetic flux &amp; gravity is present all around Earth. This creates local space for substances &amp; particles on earth. All elementary particles &amp; photon express our velocity with related to this flux. This is reason for getting velocity of light <math>C</math> on earth in all direction.</p>

One of my friend said that he is in train moving with velocity  $V$  then what will be velocity of photon with related to me in train?. I said according to my theory of local space, velocity photon in all direction will be  $C$  because Photon is so sensitive that if you want to find its velocity with instrument, it express our velocity with related to balance electromagnetic flux present around measuring instrument.

So, whenever there is photon or light near to you its velocity with related to you or measuring instrument will be same in all direction i.e.  $C$ .

This is simple solution which satisfies both above problems. Not require Special theory of relativity but just local space theory.

This concept of local space is not new; actually we are using it every day. For example, for calculation of kinetic energy or velocity for substance on earth, we do not fixed reference frame on moon but fixed on earth surface. Velocity of free electron in metal is measure with related to metal frame of reference & velocity of electron in atom is considered with related to atom frame of reference. Mean's actually, we use this local space theory every day knowing or unknowingly.

Around every substance, this local space is present. This substance may be atom, glass, train, earth or star.

I was writing something on paper. I got this idea. We cannot write anything in vacuum. We require some paper. Same is with the world. We require some frame to express our activity. For all elementary particles, this paper is balance or unbalance field acting on it.

This simple thought create concept of space. Space is created by substance. For example, atomic space is created by the charge flux of the atom; intra molecular space in the glass is created by collective balance flux of all electrons & protons of the complete substance & their gravitational flux. Space around earth is created by balance flux of all electrons & protons of the complete

earth with its gravity. (As next chapter is consider, it is due to collective flux of +ve & -ve energetic particles in matter which will be very powerful than this)

This concept of space solves lot off problems in physics:-

1) Mickelson-Morley experiment find that velocity of light is constant in all direction on earth surface.

Answer: - Photon on earth surface expresses our velocity or kinetic energy with related to the local space of earth created by electromagnetic flux of all particles of earth & gravity of earth. So, photon velocity is same in all direction on earth surface.

2) Is this theory satisfying Maxwell wave equation?

Answer:- Yes, this theory satisfy Maxwell wave equation for example one of my friend ask me that he is in train moving with velocity V then what will be velocity of photon with related to me in train?. I said according to my theory of local space, velocity of photon in all direction will be C because Photon is so sensitive that if you want to find its velocity with instrument, it express our velocity with related to balance electromagnetic flux present around measuring instrument. So, Maxwell equation

$$\frac{d^2 E}{dx^2} - \frac{1}{c^2} \frac{d^2 E}{dt^2} = 0$$

is always true in local space. As velocity of photon is always  $C$  in this local space or local frame of reference in all direction. So, any instrument will always measure velocity of light as  $C$  & this equation is always remaining true in local space.

3) Refer chapter C in paper [www.vixra.org/abs/1611.0096](http://www.vixra.org/abs/1611.0096) i.e.

‘RELATIVE VELOCITY MAY BE MORE THAN VELOCITY OF LIGHT’. In this chapter, Author proved that velocity of stars from west to east is more than  $C$  for frame fixed on earth due to its angular velocity of earth.

Answer:-As per my local theory of relativity is consider, this velocity is apparent velocity. This is because stars are not present in local space of earth. So, we can get different apparent velocities for many different stars or planets for frame fixed on earth but all velocities are apparent velocities.

These apparent velocities have no meaning in physic.

4) Distant galaxies are moving away from us with velocity more than  $C$ .

Answer:- This is also apparent velocity & not velocity in local space. So, this is meaningless velocity. This has no physical or scientific meaning.

5) Clock on earth move slower than GPS satellite clock.

Answer:- As local space of earth is created by electromagnetic flux & gravity of earth, this flux definitely have effect on properties of space like

time. It is slow down when this flux is more. So, clock on earth surface move slowly than clock on satellite.

## What is dark matter?

A bstract:- Space carries gravity.

When you are going deep inside earth, you will find that gravity of earth decreases. This is because some matter of earth pulls you in opposite direction. Near to the core of earth this gravity will be very less.

Similarly, around every big mass very large balance electromagnetic flux is present which create local space to that matter. This (balance electromagnetic flux) space also carries mass & gravity. For example, total earth gravity is not due substance on earth but also due to balance electromagnetic flux or local space around earth. So, when you are on earth, you will not fill total gravity of earth as some additional local space of earth is above you. When you move away from earth, gravity decreases as distance of solid earth from you increases but additional local space near to earth applies small additional gravity on you. When you are far away from earth, total gravity act on you is the total gravity of solid earth plus gravity due to local space of earth spread around it.

This electromagnetic flux is very high for very big matter like big stars, black hole & galaxy. This gravity of electromagnetic flux around big matter is more active at long distance than near to it.

This is the reason for additional gravitation present in the space. As space also has gravitational effect & space has very large volume, this gravitational effect is much more than consider.

Experimental Evidence:- It is found by NASA that x-ray get emitted from centre of galaxy where black hole is located.

This is because near to black hole very high balance electromagnetic flux is present due to very big mass in the black hole. It is so high that when any matter or gas inter in to near space of black hole. Electrons from that gas automatically get exited due to potential spike of high electromagnetic flux. This automatically exited electron tries to cool down by loosing high energy photon. This may be the reason to get x-ray emission from near space of black hole.



## EFFECT OF ENSTEIN SPECIAL THEORY IS TRUE IN ONE DIRECTION DUE TO PROPERTY OF SUB-SPACE.

### Principle of locality:-

In 1998, my teacher was teaching special theory of relativity. He said that velocity of light is ultimate & relative velocity cannot be more than velocity of light. I asked that for the frame fixed on earth, velocity of star moving from West to East due to angular velocity of earth must be  $V = R.W$

Where  $W$ =angular velocity of earth &  $R$ = Distance of star from axis of earth rotation (4.367 light year).

I find very interesting thing that velocity of even nearest star (Alpha Centauri) moving from West to East due to angular velocity of earth is more than  $C$ .

Teacher was surprised & checked the calculation & next day he told me that special theory of relativity is not applicable here because Star is not in local frame of reference of earth.

He is true. We all know that Kinematics calculation is true in local frame. I cannot fix the frame of reference on earth for kinematic calculation on Jupiter or on nearest star.

Now, I got answer to the problem why this principle of locality is created. This is created due to effect of inertial local space.

We are living in different local sub-spaces as given in last chapter for example, Man in rail cabin moving with constant velocity is one local space i.e. rail cabin which is subspace of earth space.

Earth space is subspace of sun space. Sun space is subspace of galaxy space.

So, effect of Special theory of relativity is true in one direction because in reverse Earth space is not the local subspace of space of rail cabin. Below, I explain it in detail.

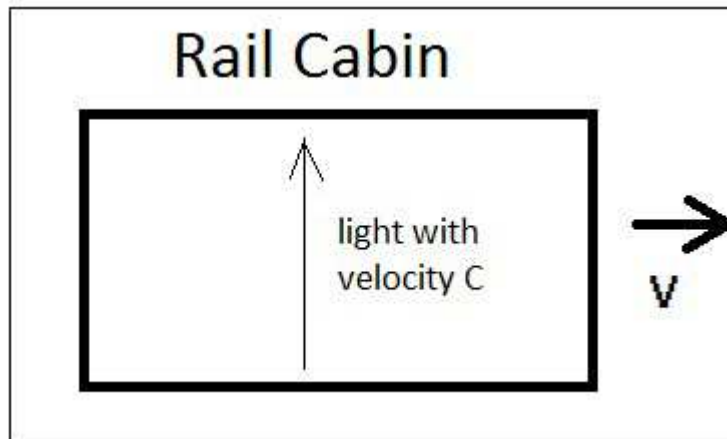
### Time (one property of space) slow down in moving subspace :-

We are living in different local sub-spaces for example, Man in rail cabin moving with constant velocity is one local space which is subspace of earth space.

Earth space is subspace of sun space. Sun space is subspace of galaxy space.

We also know that velocity of light in any local space is C.

So, velocity of light in rail cabin must be C but this same light present in rail cabin is also present in earth electromagnetic flux or in earth space & that velocity must be C.



So, for man on platform, velocity of light in rail cabin must be C as this man is representing the earth space. This both effect are only possible when one property of space i.e. time in rail cabin slow down by ratio of  $\gamma$  for the space of earth.

$$\gamma := (1 - v^2/c^2)^{-0.5}$$

So, as per time is consider, it slow down in sub-spaces but not possible in reverse way.

For example, earth space is not subspace of rail cabin space so observer in cabin will see that clock on earth is not slowing down but as a reality it found that it is moving faster.

So, time in cabin is moving slowly than earth space time, earth space time is moving slowly than sun space time & sun space time is moving slowly than galaxy time due to its relative motion correction.

Means, effect of special theory of relativity for time is only in one direction & it is actually happen. Time slow down in moving subspaces. (This effect will solve the paradox of twin brother in special theory of relativity. I consider time slow down in sub frame actually & in reverse, it actually increases.)

## Mass of any space system increases when it accelerate :-

Until now mass is consider to be the internal property of matter but I consider in different way. Mass form due to the opposite reaction to acceleration of substance in space. Space is made up of electromagnetic flux; this electromagnetic flux act as ether & has very interesting property. That is, it opposes acceleration in exponential way. This property helps that no substance in this space will move with the velocity of light.

Means, Force/acceleration or mass is not constant but increases in same way as time decreases in system just in reverse way. So, we require more & more force to accelerate in space because space opposes this acceleration with more opposite force.

## This shows that special theory of relativity effect is true in one direction.

- 1) Velocity of light is constant  $C$  in any space or in subspace but its reverse in not true. So, for man on earth, velocity of light on nearest star may be different
- 2) Time slow down in subspace & this is really happen. So, in reverse, in space clock move faster than subspace.
- 3) Total mass of subsystem also increases by factor  $:= (1 - v^2/c^2)^{-0.5}$ .
- 4) Energy equation  $E=mc^2$  is proved in chapter 4.

This shows that special theory of relativity effect is true but in one direction & I consider that such effect of relativity is true for whole sub space system.

So, time decreases or mass increases etc happen for all sub space system only.

## WE ARE IN THE WEB OF SPACE & TIME:-

Space is created by electromagnetic flux & time is property of space. Event slows down when flux is more. This creates the web of space & time. For example, in earth space, near to earth, time slow down & time run fast when we move in upward direction.

(This is new thought can be extended but after proper discussion.)

## Chapter-4

### CHAPTER 3:- REASON FOR ACCELERATING EXPANSION OF THE WORLD & BIG BANG

One day, accidentally, glass of water fell from my hand on my study table. Water has moved in all direction on table & from edge it fell with much higher velocity from table. This is because water moves away from the frame of table.

I just got this idea by seeing this phenomena because world is also like table. After the edge of our world, there is no space with relative to which physics rule of motion can be applied. There is no frame of reference.

So, motion away from world edge becomes un-deterministic. Galaxies fall in this deep vacuum (not space) without any rule of physics. So, velocity of galaxies at edge of world increases very rapidly like falling water from table & this stretches world frame rapidly in outward direction.

In previous chapter, I explain space is made by fields by matter & as there is no matter beyond edge of our world. There is no space outside this world. So, galaxies at the edge see no space where they are

moving. So, they move with velocity which physics cannot predict. This is something like free fall of galaxies in deep vacuum.

This explains accelerating expansion of the world.

This is not happening now but from the birth of this world i.e. big bang. When big bang happen edge of universe expand at very high velocity because edge of the universe expand in vacuum without any predicted velocity by physics. The physics is applied inside the world but not to the falling edge of world in vacuum. So, after big bang, edge of world expands with velocity which cannot be predicted by physics. So, expansion velocity of world after big bang is very, very fast much more than C.

This is big bang velocity of world.

After the edge of universe energy level changes from some value E to  $-\infty$  of vacuum.

So, Change in energy  $dE = \infty = F \cdot dS$

So, Force applied on galaxies on edge from outside vacuum  $= dE/dS =$   
infinite.

So, expansion of world at edge is happen with infinite velocity.  
(I personally think that mega world is made up of expanding worlds & contracting worlds present at very very vast distance from each other.

Expanding worlds are losing the matter & contracting worlds are gaining the matter before bag bang.)

## Chapter-5

### Quantum mechanics below elementary particle level?

Abstract: - Matter is simply made from Two quantum of +ve & -ve charge fields or anti-fields . You may call it as charge spike in local space. Detail is given below.

This is already proved that standard model is not perfect.

#### WHAT IS MATTER & ADDITIONAL DARK MATTER MADE UP OF?

Author has some basic problems in physics.

- 1) What is the world made up of? This world is made up of matter, dark matter & different radiations. How is this all formed?
- 2) Established concepts are, light is the flow of photon and photon is the bundle of energy. Second concept is, energy is the capacity to do work. Both concepts cannot be true at once.

Can anybody make bundle of some capacity. No, this is completely impossible thing. For example, someone has capacity to pick the book from table and do some work. Can somebody make bundle of that capacity? No, means photon cannot be consider as bundle of energy.

Means, photon is not the bundle of energy but something else. In this paper, Author will try to give answer of this problem.

Mathematically it is already proved that total energy of photon is kinetic energy & it is impossible to create a bundle of kinetic energy.

- 3) In Nature, energy acts as an effect of properties of a matter. For example, gravitational energy is the effect of gravity and gravity is the property of matter. Magnetic energy is the effect of magnetism and magnetism is the property of magnet and mass itself is the fundamental characteristics of the matter.

Then, how can someone say that mass *m* i.e. one characteristic of matter can be changed in to energy? (Which is effect of properties of matter). A nswer of this problem is given in this chapter.

- 4) If a cube of sugar disintegrates, we say that it is made up of some other particles. (i.e. Molecules of sugar)

But, if we find molecules of sugar that too disintegrating, then we can say that it is made up of some other particles. (i.e. atoms and atom is made up of electron, proton, neutron etc)

But, now we find electron, proton, and neutron i.e. elementary particles also getting disintegrated. So, we can say that they are made up of some other particles.

Now, fermions, gauge bosons, and the Higgs boson are also disintegrated for example, electron & positron create photonic emission, photon also gets disintegrated into electron & positron pairs and then we can say that they are not original particles or made from other particles.

But of what? I intend to solve this problem.

- 4) What is dark matter in Universe? Whose quantity is more than seen matter & whose existence is detected by its gravity only.

5) Photon is charge less particle but when wave nature of light is considered. It is electromagnetic vibration. How is this possible?

There are too many other problems. To solve all these problems, I would like to propose one theory.

## THEORY

I think this whole world is made up of two very very small particles (or packets) having similar positive and negative charges and other properties are exactly similar. (Just act as anti particle of one another).

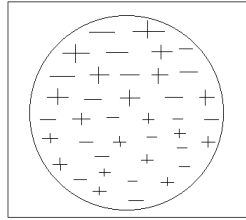


This small +ve and -ve charges and small gravitational field are responsible for every energy in nature. For example, gravity is due to small gravitational field. Magnetic and electric, these energies are due to its charges. (Other can be defined by the same way.)

It means, every energy in nature is the effect of properties (charge and gravity) of these small energetic particles. (Which are also original particle of nature.)

Every elementary particles or photon is made up of the network of these energetic particles. It is seen as cloud of charges.





In elementary particle when  $\bar{v}$ e energetic particles are more than +ve energetic particles (fundamental particles). It gets  $\bar{v}$ e charge.

When +ve energetic particles are more. Elementary particle get +ve charge.

And in neutral elementary particles (photon also) +ve and  $\bar{v}$ e energetic particles are equal in number.

For every elementary particle

Total energy  $\propto$  (no. of energetic particle present in it)

$$\text{i.e. } E \propto N \text{ ----- (1)}$$

And as elementary particles are made up of energetic particles.

Mass of elementary particle  $\propto$  N

$$\text{i.e. } M \propto N \text{ -----(2)}$$

From equation (1) & (2)

$$E \propto M$$

$$\text{i.e. } E = K M \text{ -----(3)}$$

Here K = proportional constant

We know, what are those energies of elementary particles?

So, total energy of elementary particle = gravitational energy + charge energy + magnetic energy + kinetic energy + potential energy

$$\text{i.e. } E = K M = E_{\text{gravi}} + E_{\text{charge}} + E_{\text{mag}} + E_{\text{kin}} + E_{\text{pot}}$$

Here,  $E_{\text{gravi}}$  : - Capacity to do work by small gravitational field.

As,  $E_{\text{gravi}}$  is very small as compare to other energies. Hence, for any elementary particle.

$$\text{Total energy} = E = K M = E_{\text{charge}} + E_{\text{mag}} + E_{\text{kin}} + E_{\text{pot}}$$

Here, charge energy: - capacity to do work due to its charge.

Magnetic energy: - capacity to do work due to its magnetism.

Kinetic energy: - capacity to do work due to its momentum.

Potential energy: - if magnetic or charge field of this particle acts on other but work is not done then possible work acts as a potential energy of the particle.

$$\text{In case of photon, } E_{\text{charge}} = E_{\text{mag}} = E_{\text{pot}} = 0$$

$$\text{So, } E = E_{\text{kinetic}} = K M$$

Here, kinetic energy of photon is divided equally in two parts, external energy i.e. energy due to linear motion (linear kinetic) & internal energy due to cumulative angular motion (due individual or collective spin and simultaneous vibration).

$$\text{i.e. } K M = E_{\text{linear}} + E_{\text{angular}}$$

$$\text{as, } E_{\text{linear}} = E_{\text{angular}}$$

$$K M = 2 \cdot E_{\text{linear}} = 2 \cdot ( \frac{1}{2} M C^2 ) = M C^2$$

Therefore,  $K = C^2$  -----(5)

From (3), (4) & (5)

$E = M C^2$  -----(well known equation)

And,  $M C^2 = E_{\text{charge}} + E_{\text{mag}} + E_{\text{kin}} + E_{\text{pot}}$

Author call above equation as ELEMENTARY ENERGY EQUATION.

Above equation is true for every elementary particle.

{Some physicist may say that this is against famous relation of quantum mechanics.

$E = \sqrt{m^2 c^4 + c^2 p^2}$  but if I put  $p = \therefore m v$  then output will be

$E = \therefore m c^2$

i.e.  $E = \text{relative mass} \cdot c^2$

So, My equation is not much different

Only thing is that to consider photon as bundle of energy is not required}

One of the physicist said that you are wrong because rest mass of photon is zero.

My answer:- total energy of photon is kinetic energy or total energy is due to its momentum (unlike electron or proton). So, its reverse mathematical meaning is if photon is at rest then its energy, mass or momentum is zero.

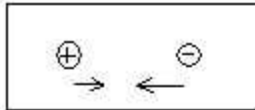
But photon cannot be at rest & mass cannot be zero. Zero rest mass of photon is just mathematical effect of above equation.

In case of non-charge particle like photon & neutrino as their total energy get expressed as kinetic energy. Their velocity ( $c$ ) is much & much greater than other particles like electron & proton etc. whose energies get express in other forms also, like charge, magnetic energy etc. This is already proved.

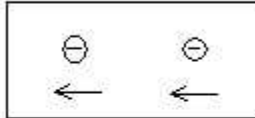
### Wave nature of particle

(There is no explanation for dual nature of particles in world until now. It is accepted as fact without explanation. How single particle can cause interference etc are still the problem for physics)

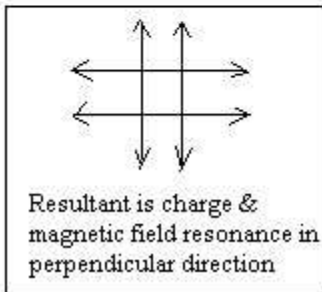
Author thinks that size of energetic particle is very small & every energetic particle is surrounded with very strong electric charge field whose size and reach is much more than particle size. This is something like packets of +ve & -ve charges living together. Due to attraction and repulsion between all particles in elementary particle, there is resonance of charges in elementary particles. This charge resonance creates magnetic resonance in perpendicular direction. This will create electromagnetic resonance or wave nature of elementary particle.



Resonance of particles



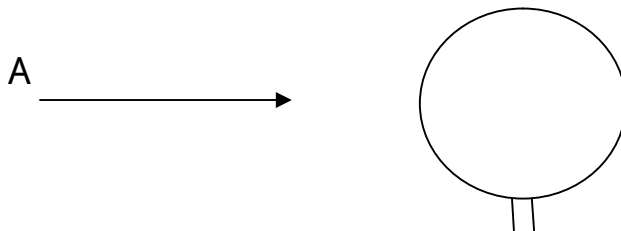
Equivalent picture is same charge is vibrating in same direction

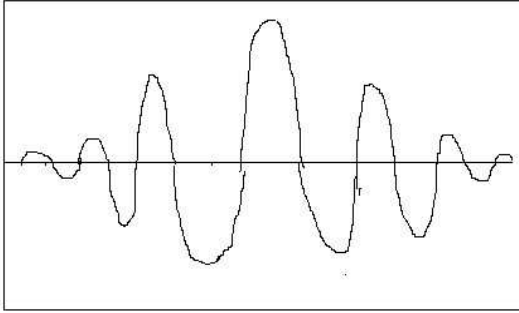


(As motion of +ve particle towards right side, its electromagnetic effect is equivalent to motion of -ve particle towards left side.)

So, when this particle moves from space, electromagnetic resonance moves with it instantly.

For example, photon A is moving through the electromagnetic wave recorder then electromagnetic pulse which it will recorded will be like following signature

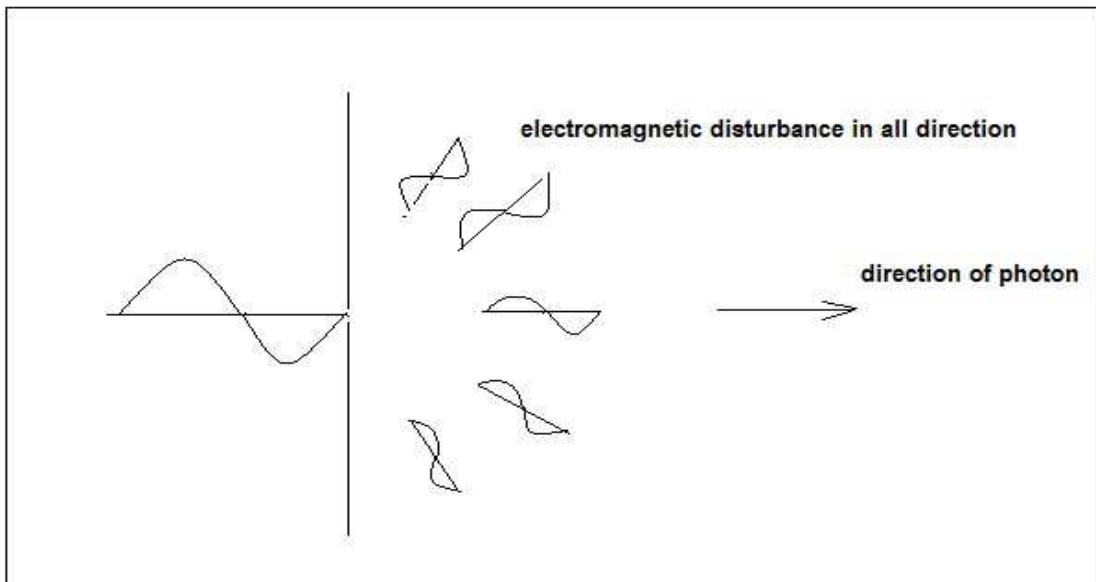




### Wave Signature

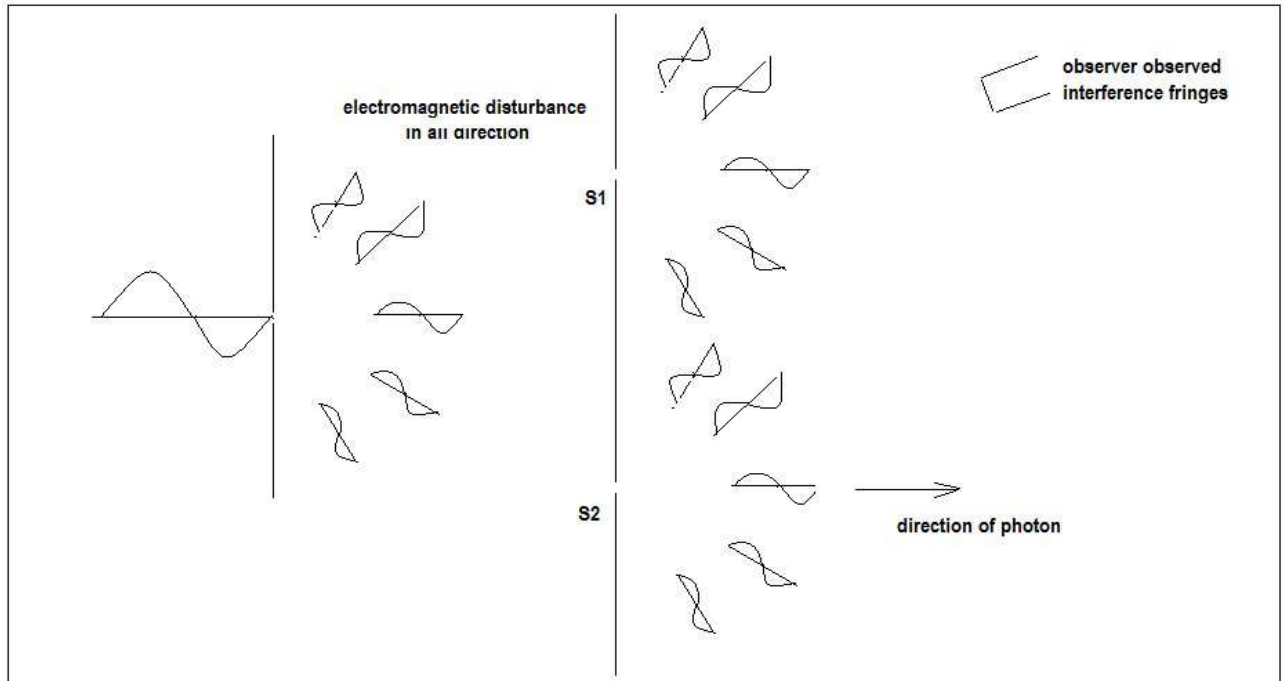
Position of photon is near to where amplitude of wave will be much higher. For stationary observer this behavior is like pure electromagnetic wave pulse. Locally electromagnetic overlapping is instantaneous. So, its effect is instantaneous at some distance forward & backward of photon. So, we get wave signature up to some distance.

Dispersion:- If size of slit is less than wave length of electromagnetic light pulse. Photon is not dispersing but electromagnetic disturbance whose behavior is like wave will get spread in opposite side.



Interference:- In interference, this disturbance from original slit passes through two other slits S1 & S2 & that create interference fringes. Then

what ever may be the path of photon, until wave or electromagnetic disturbance passes through original slit, overlapping of disturbance will happen after slit S1 & S2 instantly. This will forms the interference patterns. This pattern will not be depending on path of photon.



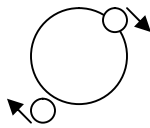
Polarization: - Photon is much smaller than electromagnetic flux around it & generally it is non-polarized in nature but due to grating geometry of crystal. This vibration of electromagnetic flux can be changed. This is due to internal vibration change of energetic particles. By passing light through proper medium, we can change polarization of light.

In Additional dark matter which is explain below this **wave nature is absent** because it is made up of only two +ve & -ve energetic particles. Both energetic particles behave independently to form basic stable structure of world. This is called additional dark matter of the universe.

## ADDITIONAL DARK MATTER

This matter is the origin of all matter in universe. This matter is simplest matter made by this two +ve and -ve energetic particles. In this matter all the energies like E gravi, E charge, E mag, E kin is well balanced in very small space as explain below.

In this matter two +ve and -ve energetic particles revolving around their mass center like binary stars



Attraction between +ve and -ve charges form force toward center and velocity form to balance kinetic energy to balance elementary energy equation

$$M C^2 = E \text{ charge} + E \text{ mag} + E \text{ kin} + E \text{ pot}$$

form force against that attraction force. (centrifugal & centripetal forces)

As both particles are just antiparticles of one another. Magnetic field formed by one +ve particle is canceled by other -ve particle. Charge field formed by one +ve particle is canceled by other -ve particle and motion of both particles is suppress in limited small area due to their circular motion. In this matter both energetic particle expresses all their energies in very small space only.

This matter is well balanced. All energies are well balanced in limited small area. There is no resultant radiation by which matter is detected, no resultant magnetic field, no resultant charge field, no resultant motion and size is so small that this matter can goes through



other matter undetected. Only detected term is its gravity, which is also too small.

Author thinks this matter remains everywhere in universe undetected and as this is very simple structure its quantity is more than other matter in universe. This is already a proved concept. This may be revolving around earth, sun and galaxy undetected because this is dark matter. As this matter is spread everywhere its resultant gravitational effect also remains undetected.

This matter may present in deep space as a big revolving cloud but remains undetected as radiation from other objects goes through it undisturbed. Size of this particle is much smaller than even a photon but no resultant motion or radiation.

This is the first very stable state of matter. So, quantity of this matter is much more in universe.

<u>Other matter</u>	<u>Additional Dark matter</u>
1) Absorb & discharge electromagnetic radiation.	1) This matter is the most stable matter & does not interact with any radiation.
2) Made up of elementary particles, which are made up of energetic particles.	2) Directly made up of two independently revolving energetic particles. So, very simple structure & quantity of this matter is much more.
3) Any matter cannot move through other solid matter.	3) Particle size of this matter is so small that it can easily move through any solid matter.

4) Molecules of matter interact with each other & bond is form between these molecules to form matter.	4) Every particle act independently. There is no interaction or bond between two particles. Even single particle will float independently.
5) This matter is visible matter.	5) Only gravitational effect is visible.

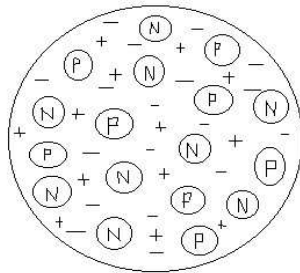
Black hole: - In black hole mass of star get compressed in very small area. First matter formed by compression is high-density neutron matter. When due to high gravity this state of matter also get collapsed & only state of matter remains is dark matter. In this dark matter very high energy is well balanced in very small area. A uthor thinks that main matter in black hole is dark matter where very high energy get store in very small space.

Big bang: - This dark matter is also getting crushed due to very high gravity. This is formed when all the matter of the universe accumulated at one place. This is the time before big bang. Where all the energies well balance in small space & these energy is suddenly get release in one stroke as charge burst when this dark matter get collapsed & then the very high explosion occur. This creates big bang effect.

## NATURE OF ATOM

NUCLEUS: - it is made up of protons (P) and neutrons (N) and lot of elementary particles. Its picture at every moment is changing. Proton changes to neutron and neutron changes to proton and flying elementary

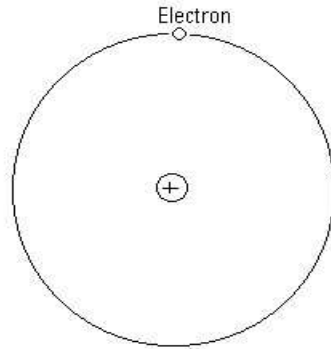
particles moving from one another are replaced by other. It means for instant picture of nucleus just like jelly because every nucleons are made up of energetic particles. This state is responsible for nuclear forces, which bind nucleus in one piece.



ELECTRON: - electron moves around nucleus in some fixed orbit. It is also made up of energetic particles but when any photon is added to electron. The numbers of energetic particles are also increases. We know for electron,

$$E = E_{\text{kin}} + E_{\text{charge}} + E_{\text{mag}} + E_{\text{pot}} = M c^2$$

When photon is added. Mass  $M$  changes from  $M$  to  $M + dm$  but here,  $E_{\text{charge}}$ ,  $E_{\text{mag}}$  &  $E_{\text{pot}}$  remains constant only changeable energy is kinetic energy, so when photon is added only kinetic energy of electron increases & it jumps from lower orbit to higher orbit. In reverse case same thing happens in reverse manner.



## SOLUTIONS OF DIFFERENT PROBLEMS

### 1) WHAT IS MEANT BY HEAT ENERGY?

Temperatures of substance (heat energy level) depend upon, how much electrons are excited in atom of substance? Electrons get excited when it gets more energetic particles (by this theory). Means, heat energy of anybody depends upon number of extra energetic particles that do exist in that substance.

At 0° A (absolute) electron of substance get sufficient numbers of energetic particles. But as temperature increases, numbers of extra energetic particles in electrons get increases. So, radiation of those extra energetic particles from electrons is always going on in the form of photons. At the same time, electrons also accept photons from other radiation.

So, in case of electron, accepting and giving out photons is always going on. So, temperature of substance is only constant when rate of energetic particles accepting and going out (in the form of photons) is equal.

Now, we get actual picture of thermal energy and its translation i.e. when we heat any substance, we only give extra energetic particles in the form of photons to that substance. For example, when we supply heat by burning coal. At that time, we supply photons emitted due to chemical reaction between Carbon & Oxygen to heating substance. Vibration of molecules is effect of extra energetic particles in electrons of the substance.

2) IF PARTICLES LIKE TACHYON ARE IN EXISTANCE THEN HOW DOES IT HAVE VELOCITY GREATER THAN LIGHT?

This can be proved by this theory. We know for any particle.

$$E_{\text{kinetic}} = M \cdot c^2 - (E_{\text{charge}} + E_{\text{mag}}) \text{ -----(1)}$$

If Tachyon have cumulative spin & vibration of energetic particles then

$$E_{\text{kinetic}} = E_{\text{linear kinetic}} + E_{\text{angular kinetic (due to spin \& vibration)}}$$

But if M is mass & V is velocity then,

$$E_{\text{kinetic}} = \gamma \cdot M \cdot V^2 + E_{\text{angular kinetic}} \text{ -----(2)}$$

From (1) & (2)

$$\mathcal{K}.M.V^2 = M.C^2 - (E_{\text{charge}} + E_{\text{mag}} + E_{\text{angular kinetic}})$$

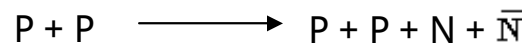
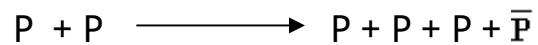
But if  $(E_{\text{charge}} + E_{\text{mag}} + E_{\text{angular kinetic}}) < \mathcal{K}.M.C^2$

$$\text{Then, } \mathcal{K}.M.V^2 > \mathcal{K}.M.C^2$$

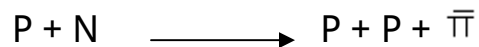
$$\text{SO, } V > C$$

3) IF IN NATURE FOLLOWING TYPES OF REACTIONS ARE GOING ON

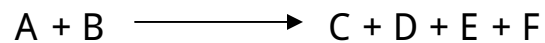
Suppose proton & proton get collide



And when P & N collide



Such reaction can be explained by this theory. In any reaction



Total energetic particles before reaction = total energetic particles after reaction

$$\text{So, } Ma + Mb = Mc + Md + Me + Mf$$

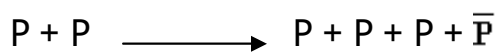
$$\text{Or, } Ma \cdot C^2 + Mb \cdot C^2 = Mc \cdot C^2 + Md \cdot C^2 + Me \cdot C^2 + Mf \cdot C^2$$

i.e. total energy before = total energy after reaction -----(1)

Also, in reaction number of extra +ve or -ve energetic particles remains same. So,

$$\begin{array}{l} \text{Extra +ve or -ve} \qquad \qquad \qquad \text{Extra +ve or -ve} \\ \text{Charges before reaction} = \text{Charges after reaction} \text{ -----(2)} \end{array}$$

Both equations are always true in any reaction between two elementary particles. For example,



Here, total energy before = total energy after and  
Total extra +ve charge before = total extra +ve charge after

4) As energy is the capacity of doing work, how can we explain explosion of atom bomb or hydrogen bomb?

In case of atom bomb or hydrogen bomb, matter of mass M changes to the particles of radiations whose total energy is equal to  $MC^2$ .

(Energetic particle may be formed by small high repulsive field surrounded by ring of very high attractive field & then general fields like gravity, +ve or -ve charge field. Repulsive field at centre gives elastic nature to particle; attractive field ring gives nuclear forces & binding forces to particle. General Fields like gravity & charge fields gives a tool by which energetic particle expresses our self in the world.)

For other details refer paper on [www.maheshkhati.com](http://www.maheshkhati.com)



Kinematic Calculation is true when done in subspace:-

Newton's inertial frame concept is wrong & must be converted into local inertial space. In Each Newton's inertial frame observer find different results of similar event.

Consider that one same event happen at two places. One is happening in train cabin & other happening in platform. Observer is the same & that is present in the train cabin.

Event:- Old man push the cart of mass  $m$  from its rest position to velocity  $V_1$  in direction of train velocity . This event happen in the train & same event happen on the platform. Velocity of train is  $-V_2$  then energy consumed by old man observed by observer in train cabin will be

For Event in train cabin observer by observer in cabin:-

$$\text{Energy consumed by old man} = 0.5 m V_1^2 - 0 = 0.5 m V_1^2 \text{ -----(1)}$$

For Event on platform observer by observer in cabin:-

$$\begin{aligned} \text{Energy consumed by old man} &= 0.5 m (V_2 + V_1)^2 - 0.5 m V_2^2 \\ &= 0.5 m (2 V_1 V_2 + V_1^2) \text{ -----(2)} \end{aligned}$$

As both events are same. Old man in cabin or on platform will consume the same energy but same observer will find that energy consumed by old man is different.

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Similarly, if event happen on platform & observed by two observers, one on platform & other in train moving with some constant velocity will find the same thing.

i.e. Energy consumed by old man is different.

But energy consumed by old man must be same.

Mean's, every inertial observer do not observe the real physical quantity. Only, one of the frames is the true frame which is inertial subspace.

Observer present in inertial subspace will do the correct kinematics calculation only.