



**THEORY OF EVERYTHING
(EXPLANATION FOR
ACCELERATED EXPANSION OF
WORLD, BIG BANG & DARK
MATTER)**

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Preface

This paper gives answer to all questions

- 1) Why is world expanding with accelerated velocity?
- 2) What is dark matter?
- 3) Dual nature of particles (Wave & particle)
- 4) Why antimatter is not present in world abundantly?
- 5) Total energy of photon is kinetic energy, still it is moving of electromagnetic vibration & rest mass or energy of photon is zero & also, it has wave nature? How is this possible at one time?
- 6) How can photon disintegrate into electron & positron pair and electron, positron get combine to form photon?
- 7) Why does charge less particles like photons & neutrino have more velocity?
- 8) Many heavy but unstable particles are forming in LHC at CERN.

INDEX

SR. NO.	PARTICULARS	PAGE NO.
1	What is the space?	
2	Reason for Accelerating Expansion of the World & Big bang.	
3	Quantum mechanics below elementary particle level.	
4	Forces in special theory of relativity make special theory of relativity wrong.	
5	Absolute inertial frame is the relativistic concept	

.1. WHAT IS THE SPACE?

One day, Author 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 in my last paper on www.vixra.org/abs/1611.0096 . (same mathematics given in last chapter of this paper)

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 -ve 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 = $\frac{5.92 \times 10^{24}}{3.53935} = 1.67262 \times 10^{27}$ Nos

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

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

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

= 5.66297×10^{32} Coulombs

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

km from earth

= $\frac{8990000000 \times 5.66297 \times 10^{32}}{100000000 \times 1000000000}$

= 5.09101×10^{26} N

This calculation shows that even at the distance of 100000 km earth's protons apply

very powerful attractive charge force but this force is balance by force applied

by total electrons on earth in opposite direction.

Means, very powerful balance electromagnetic flux is present around earth at very

very long distance also.

This balance electromagnetic charge flux at long distance must carries gravity.

This create the effect of dark matter at long distance (additional gravity due

to space)

Electron space & earth space are equivalent :-

Nuclear space	Earth space
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.	1) Same thing happen on earth, just consider only negative charge of electrons of earth then very high -ve 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.

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 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, 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.

By using Thermodynamics, we can prove this theory: - Just consider simple local space i.e. space inside the train cabin. Consider in train cabin, first, one light beam travel in direction of train velocity inside the train cabin & by mirror it gets reflected in direction perpendicular to train velocity. If we can consider train cabin as close system by thermodynamics then energy will not come inside & go out from system. As no energy is going out & goes inside then velocity of photon will remain same even after reflected in perpendicular direction (with related to rail cabin) because kinetic energy of photon related to cabin will remain same until

some energy is added to photon from outside. So, velocity of light even in moving train with some velocity remain same in the direction of train velocity or in perpendicular direction to train velocity.

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 third 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 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?

Abstract:- 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 excited due to potential spike of high electromagnetic flux. This automatically excited electrons & electrons tries to cool down by loosing high energy photon. This is the reason to get x-ray emission from near space of black hole.

How does all elementary particle present in wave & particle form?

Answer:- This is like one singing person is walking on road. The person will now represent particle & song or vibration in local space will represent wave nature. Detail is given in third chapter.

CHAPTER 2:- 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 fell 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 of 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 $-ve$ infinity of vacuum.

So, Change in energy $dE = \text{infinity} = F \cdot dS$

So, Force applied on galaxies on edge from outside vacuum $= dE/dS = \text{infinite}$

So, expansion of world at edge is happen with infinite velocity.

CHAPTER 3:-QUANTUM MECHANICS BELOW

ELEMENTARY PARTICLE LEVEL?

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

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 into energy? (Which is effect of properties of matter). Answer 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

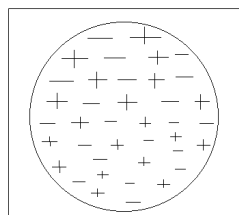
I think this whole world is made up of two very very small particles (or packets) having similar positive and negative charges and other properties are exactly similar. (Just act as anti particle of one another).



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 –ve energetic particles are more than +ve energetic particles (fundamental particles). It gets –ve charge.

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

And in neutral elementary particles (photon also) +ve and –ve 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_{gravi} : - Capacity to do work by small gravitational field.

As, E_{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.

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

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).

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

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

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

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

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

$$E = M C^2 \text{ -----(well known equation)}$$

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 $p = \gamma m v$ then output will be

$E = \gamma m c^2$

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.

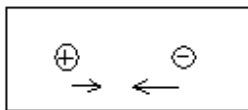
But photon cannot be at rest & mass cannot be zero. Zero rest mass of photon is just mathematical effect of above equation.

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.

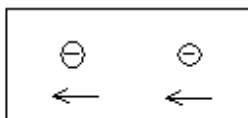
Wave nature of particle

(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)

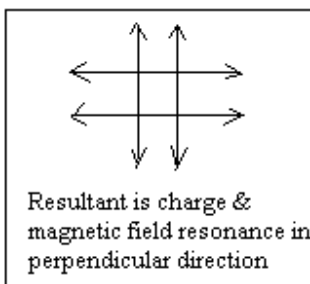
Author thinks that size of energetic particle is very small & every energetic particle is surrounded with very strong electric charge field whose size and reach is much more than particle size. This is some thing like packets of +ve & -ve charges living together. Due to attraction and repulsion between 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



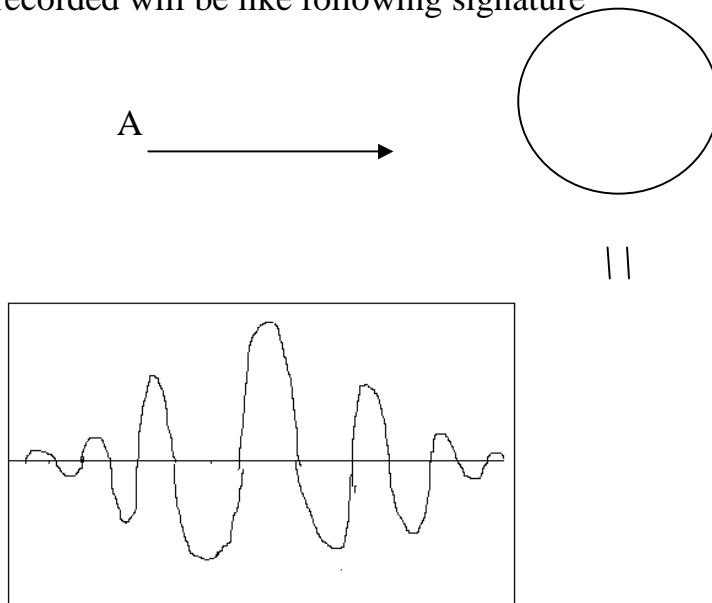
Equivalent picture is same charge is vibrating in same direction



(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.

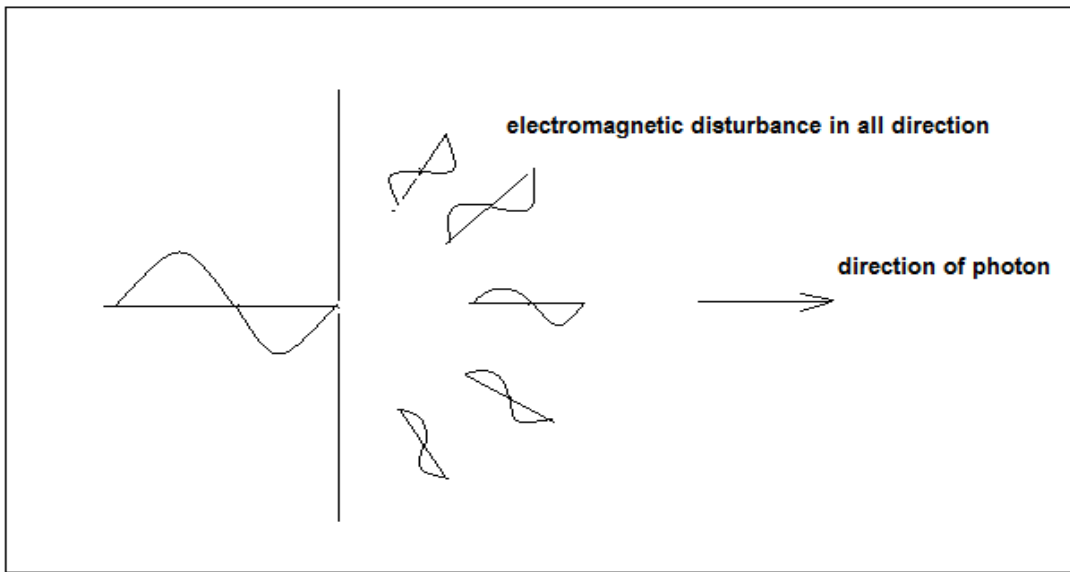
For example, photon A is moving through the electromagnetic wave recorder then electromagnetic pulse which it will recorded will be like following signature



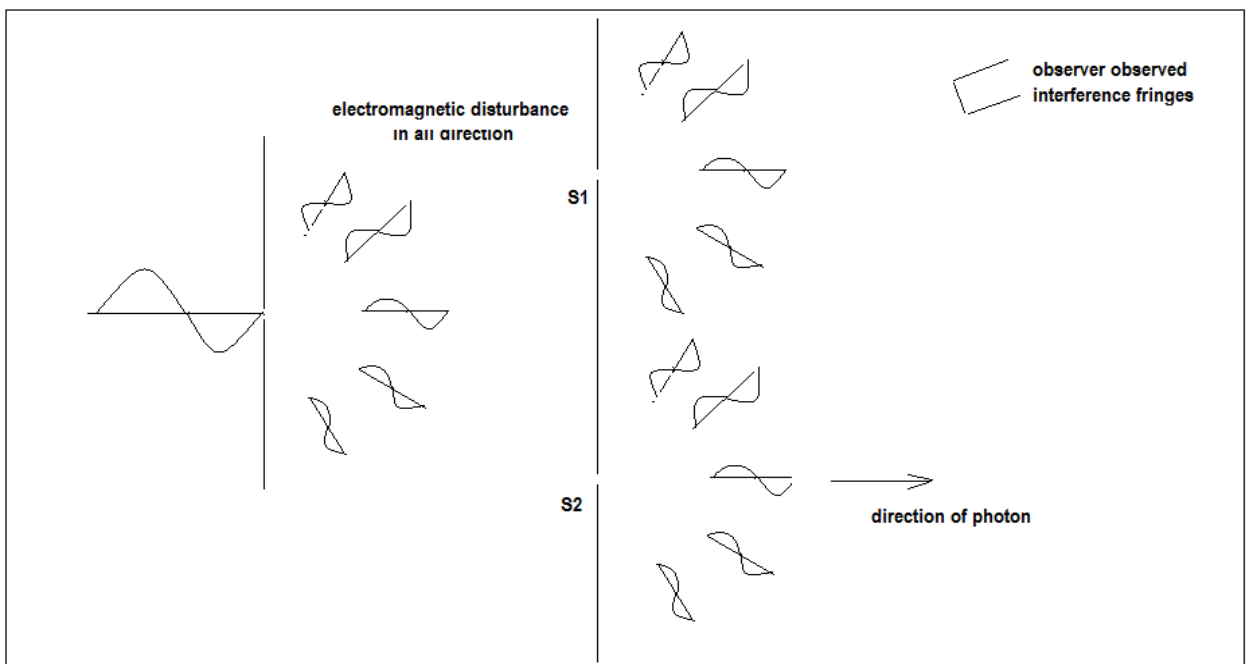
Wave Signature

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 in space.



Interference:- In interference, this disturbance from original slit passes through two other slits S1 & S2 & that create interference fringes. Then whatever 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 form the interference patterns. This pattern will not be depending on path of photon.



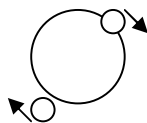
Polarization: - Photon is much smaller than electromagnetic flux around it & generally it is non-polarized in nature but due to grating geometry of crystal. This vibration of electromagnetic flux can be changed. This is due to internal vibration change of energetic particles. By passing light through 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 suppressed in limited small area due to their circular motion. In this matter both energetic particles express 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 go 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 be 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 photon** but no resultant motion or radiation.

This is 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 most stable matter & not interacts 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.

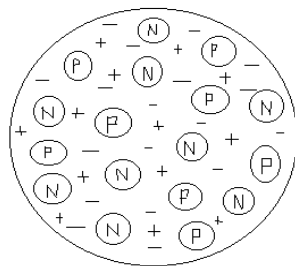
Black hole: - In black hole mass of star get compressed in very small area. First matter formed by compression is high-density matter. When due to high gravity this state of matter also get collapsed & only state of matter remains is dark matter. In this dark matter very high energy is well balanced in very small area. Author 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

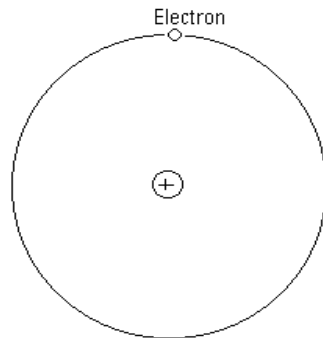
NUCLEUS: - it is made up of protons (P) and neutrons (N) and lot of elementary particles. Its picture at every moment is changing. Proton changes to neutron and neutron changes to proton and flying elementary particles moving from one another are replaced by other. It means for instant picture of nucleus 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_{charge} , E_{mag} & E_{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 any body depends upon number of extra energetic particles that do exists 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.

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

If Tachyon have cumulative spin & vibration of energetic particles then

E kinetic = E linear kinetic + E angular kinetic (due to spin & vibration)

But if M is mass & V is velocity then,

$$E \text{ kinetic} = \frac{1}{2} M \cdot V^2 + E \text{ angular kinetic} \text{ -----(2)}$$

From (1) & (2)

$$\frac{1}{2} M \cdot V^2 = M \cdot C^2 - (E \text{ charge} + E \text{ mag} + E \text{ angular kinetic})$$

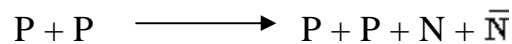
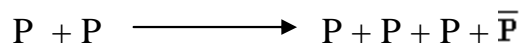
But if $(E \text{ charge} + E \text{ mag} + E \text{ angular kinetic}) < \frac{1}{2} M C^2$

$$\text{Then, } \frac{1}{2} M \cdot V^2 > \frac{1}{2} M \cdot C^2$$

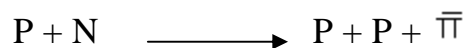
$$\text{SO, } V > C$$

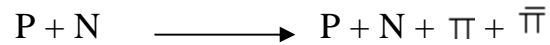
3) IF IN NATURE FOLLOWING TYPES OF REACTIONS ARE GOING ON

Suppose proton & proton get collide

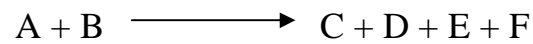


And when P & N collide





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



Total energetic particles before reaction = total energetic particles after reaction

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

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

$$\text{i.e. total energy before} = \text{total energy after reaction} \text{-----(1)}$$

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 very high attractive field **ring** & 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.)

Thickness of attractive field ring in +ve charge energetic particle is wider than thickness of attractive field ring in -ve charge energetic particle. So, big particle with +ve charge is easily created & more stable. So, world is abundantly made up of matter than anti-matter.

For other details refer paper on www.maheshkhati.com

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

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.

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

So, after differentiation

$$F_x = y \cdot m_0 \cdot (du_x/dt) + y^3 \cdot m_0 \cdot \{u_x/c^2\} \cdot (u \cdot du/dt)$$

$$F_x = y \cdot m_0 \cdot a_x + y^3 \cdot m_0 \cdot \{u_x/c^2\} \cdot (u \cdot a) \text{ -----(A)}$$

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

So, after differentiation

$$2 u \cdot (du/dt) = 2 \cdot u_x (du_x/dt) + 2 \cdot u_y (du_y/dt) + 2 \cdot u_z (du_z/dt)$$

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

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

from (A) & (B)

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

Now, 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

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

Or $F_x = F_{ay}$ as this force is form due to 'ay' only

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

Important point (1):-

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

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

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

$-f_x = -\gamma^3 m_0 \left(\frac{u_x}{c^2} \right) u_y a_y$ or $-F_{ay}$ 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

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

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

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

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

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.

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.

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 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.

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,

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

CALCULATION 2 :- MATHEMATICS WHICH PROVES THAT CONSUMPTION OF ENERGY IN DOING WORK DECREASES AS RELATIVE FRAME VELOCITY

INCREASES:-

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

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

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

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 :-

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

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

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

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

$$W' = W / \gamma$$

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 :-

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This shows that as velocity V increases, energy consumed in doing work decreases. This is against relativity because by mass & energy equivalence, energy has to increase as mass increases.

We know that the definition of energy is the capacity of doing work. This proves that capacity of space holding energy decreases as frame velocity increases.

This happens because force perpendicular to V decreases & space gets contracted in the direction of V .

CALCULATION 3:- *Relativity is so wrong. It can be proved that there can be acceleration without force again.*

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

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

In frame S :- Now, just consider that on 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?

If U_x is more than V then in this frame there is +ve velocity & acceleration in X' & Y' direction.

In frame S' , if I apply equation (1) i.e.

$$F'_x = y \cdot \text{mo. } a_x' + y^3 \cdot \text{mo. } (u_x'/c^2) (u_x' a_x' + u_y' a_y') \text{ -----(1)}$$

These will gives completely opposite result which says that if a_x' & a_y' are in existence then F'_x cannot be zero.

Means, one equation of S.R. says that this is possible & other equation says that this is just impossible.

These calculations 1,2 & 3 shows that special theory of relativity is wrong.

CHAPTER 5

ABSOLUTE INERTIAL REFERENCE FRAME IS A RELATIVISTIC CONCEPT

In this world, on every object many forces are acting like magnetic, charge, gravitational, which gives out other forces like frictional, cohesive etc. In Einstein's relativity, inertial frame of reference is important. In inertial frame of reference no external force is acting on matter, so acceleration is absent. This is wrong assumption; some force is always acting on every substance. Only some time we feel no force is acting and we are in inertial frame of reference but why such thing happens. I answer to this question below.

When I see this nature. I find one very interesting thing i.e. resultant force acting on each body is zero.

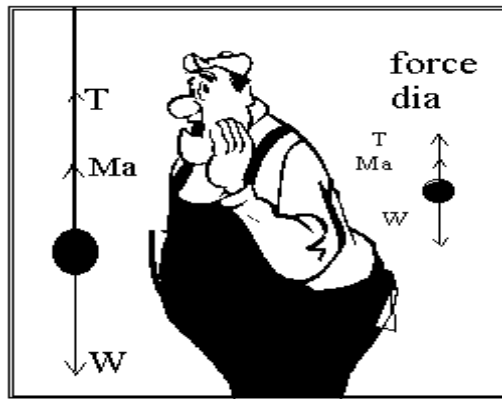
i.e. summation of electrical, magnetic,
gravitational, frictional, cohesive, = 0
directly applied force or force due
to acceleration

You may take anybody. We see that this thing is correct. For example, consider a ball of mass M is hanging to the roof of cabin as shown in figure. Then, in this case two forces are acting on the ball. One is its own weight acting in downward direction. [As shown in figure] and other is tension in upward direction.

$$\text{So, } T - W = 0 \text{ -----[1]}$$



SECOND CASE: - Now, consider cabin is accelerating downward towards earth by acceleration a . Then, we fill that weight of ball decreases. Because, here accelerating force is acting with tension.

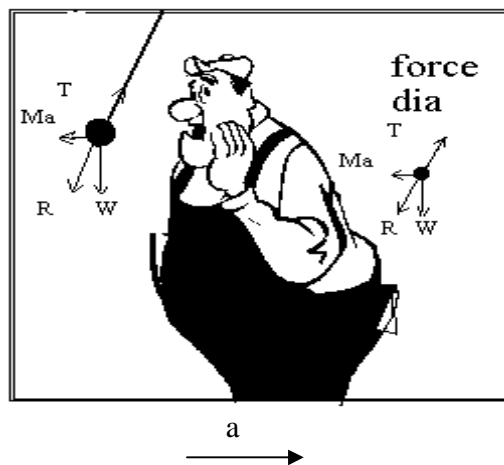


$$W = M a + T$$

$$W - M.a - T = 0$$

i.e. resultant force = 0 -----[2]

THIRD CASE: - now consider that cabin is accelerating horizontally by acceleration a then



$$T = R \quad [R \text{ is the resultant of } M a \text{ and } W]$$

$$\text{i.e. } R - T = 0$$

i.e. resultant force = 0 -----[3]

These all three considerations and other considerations like any substance place on earth surface or any rocket or any satellite or earth itself.

Every time we will find total resultant force acting on each matter in the world is zero.

We feel the weight of body only when frictional force, tensional and compression like other material forces, cohesive force act on the body with other forces.

Why does anybody accelerate?

We know on each body
Total resultant force = 0

i.e. forces are well balance but as any new force act on body. This balance state of forces must get disturb & it will accelerate in direction of that new force & again force of acceleration will form which will balance this new force.

i.e. new force = (acceleration a) M

(Acceleration with relative to first state)

So, new force = M.a

OR

I express it in another way.

Any body in the world accelerates with relative to previous state when any new force act on body. Only to balance this new force.

OR

To make resultant force i.e. $F = 0$
Acceleration takes place in world.

(For every action there is equal & opposite reaction--- By Newton)

For other detail refer paper on www.vixra.org/abs/1611.0096 or paper on www.maheshkhati.com