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Origin of Universe and Life with the Theory of Stability and Law of Universal Neutrality

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ABSTRACT

There must be a single cause or purpose behind the origin of universe, the time dilation we observe and the origin of life on earth as well as single minute activity we see in this universe. The world is chasing from decades for this big question. Here by trying to explain reasonable answers to all these questions. To explain these questions, I have taken all the proposed theories and laws under consideration in all of my thought experiments and the result I have found correlates to all the proposed formulas in different fields of science. The theory of stability and universal law of neutrality explains the valid answers to all these questions. With the help of these laws and the theory proposed, the field of science will be more close to the universe and this will eventually help the mankind to build a better world in future with revolutionary changes in all the fields of science.

Keywords—Origin of universe, Origin of Life, Laws of universal neutrality, Theory of Stability, Universal Neutrality, Fundamental forces, Survival and Existence, Universal Point Of View (UPV).

1. INTRODUCTION

Big questions of all the time 1- How does this universe came to existence? 2- How does this universe and time works? 3- Why do we exist? Humankind and the science have evolved to a great extent but answers to all these questions are still debatable. Different laws and theories already proposed have given us a concrete base to understand the universe, time and the life. Newton's law of gravitation, Einstein's special and general theory of relativity, Big bang theory, String theory, Loop theory, Quantum mechanics (its matter and antimatter theories) such all the other theories direct and indirectly states that every object in this universe is under some forces which are responsible for the possible inertia and every movement of an object present in this universe. Here by explaining the fundamental forces (I+) ISF inward spring force and (O-) OSF outward spring force considering responsible for everything we observe in this universe. (*nothing happens in this universe without these forces.)

The four fundamental forces what we believe are 1- Strong nuclear forces. 2- Weak nuclear forces. 3- Electromagnetic forces. 4- Gravitational force. But if these forces fundamentally govern the universe we still to know the origin of universe and life with the help of them, so it needs to change our perspective towards the universe, time and life with the universal point of view [UPV].

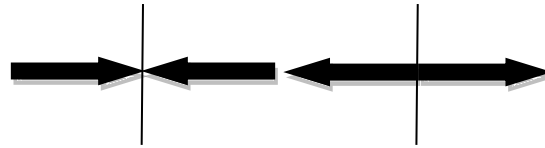
1.1 Why UPV?

Consider four observers looking at a big and tall building from four different particular sides of the building each observer will describe the building with relative to his observation which will surely be not 100% correct. As relative observation will have observational error. If we go with the UPV we can reduce the error as because whatever may be the truth in this universe can't be and will not be change according to relative observer. It will always be universal truth which doesn't have any error but if we go with UPV we can just reduce the observational error.

2. METHODS

2.1 Balanced and unbalanced forces.

When the two opposite forces of equal magnitude cancel each other the net force applied on object is zero. If that object is in motion will be remain in motion and if the object is steady will be remain as steady. (Newton's first law of motion or law of inertia)



I (+)O (-) [The net force is zero Nf (o).] I (+) O (-)

Fig 1: Neutrality

Balanced forces [Inward I (+) towards center and Outward O (-) away from the center]

2.2 Balanced forces and universal neutrality

Applying this law to universe we can say these two forces are the fundamental forces of universe which were maintaining the stability and the neutrality of the universe as balanced forces where there the net force must be zero.

$$\text{NEUTRALITY (net force zero) } Nf(o) = (I - O)$$

Where- Outward spring force (O = -) and Inward spring force (I = +).

We can understand this with an example of blowing balloon. When an external force applied to blow a balloon its basic structure restrict the force from blowing it. If we increase the force of blowing, the structure of balloon increases the force of restriction itself to maintain the neutrality by trying to reestablishing its structure. Universal neutrality was maintained for billions of years before the big bang by these two fundamental forces.

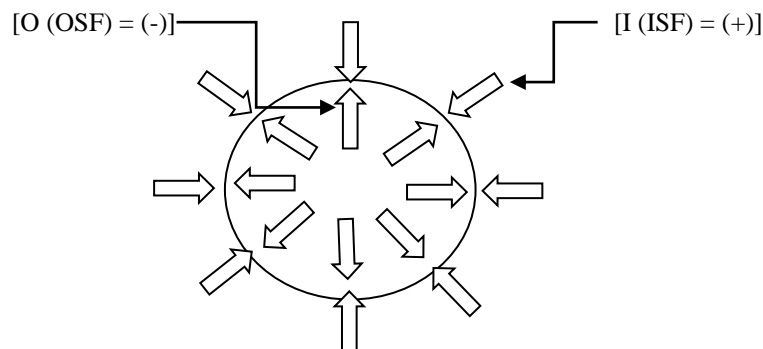


Fig 2: Neutrality of universe (net force zero) $Nf(o) = (O + I)$ (Where $O = I$)

2.3 Unbalanced forces and the big bang

As big bang theory says the universe was originated from a highly condensed point called Planck epoch. This Planck epoch was nothing but the peak point where there the balanced forces became unbalanced. A big bang occurred and the universe lost its neutrality.

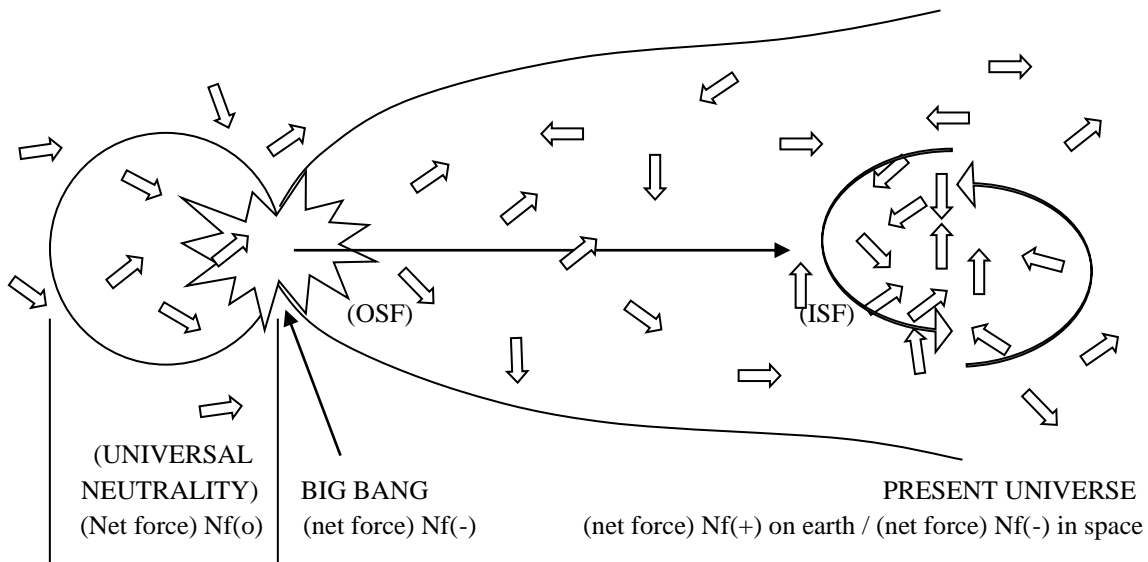


Fig 3: Big Bang

This net force (Nf) of these two fundamental forces of universe (O and I) is responsible for everything we see in this universe. As because (I) force constantly tries to stabilize and reestablishing the universal neutrality (we concenter it as gravitational force, Decelerating force) and the (O) force (we concenter it as darks matter or dark energy, accelerating force) constantly there for destabilize the universe. This constant struggle in between them gave birth to pure energy before the big bang and the matter after the big bang and the present universe.

2.4 Space and Gravity

According to Newton every object (mass) attracts each other with a force whose magnitude is determined by distance between the said objects. Newton called it gravitational force. Einstein contradicting to that proposed a new theory (Theory of special as well

as general relativity) where he declared new laws of gravity which is without the force of attraction in between objects but the objects move towards each other because of curve/bend developed in space time fabric due to mass of an object. About the weight of an object Newton's law states that force is directly proportional to both mass and acceleration, and the equation of force is $F=m*a$, where m =mass and a =acceleration(due to gravitational force). On earth the weight of the body is $W=m*g$ where g =gravitational acceleration constant. That states that the weight of an object on earth is determined by the mass and the pull of gravity. But the general theory of relativity says that an object on earth do not gain weight because of gravitational pull (as considered it does not exist) but it is because of push by accelerating earths mass developed a bend path in space time fabric towards the big mass object (earth).

(*Object which fall towards the earth he conceded it as free-falling objects without any gravitation pull.)

With the UPV if we look at the universe and its function, we can say that every single particle in this universe is functioning under some fix rules and laws there can be some flexibility we can observe with our perspective. These laws can be the reason behind the neutrality of universe, behind the big bang and behind the present we observe. Now if we talk about the theories with or without the gravity, I can definitely say that there must be some forces working behind everything whatever we see and observe. Because as we can say that not a single particle can break the laws of universe. It means every single particle is explaining us how does this universe works, it is just our perspective that we still could not find it. So, to understand the chaos of presence and absence of gravitational force we can understand it with magnets and its magnetic field.

Let just take the piece of a magnet and hang it to the roof and let it be hung it will definitely direct to specific direction (as atoms and molecules of magnet managed to direct there (O) and (I) forces exactly in opposite direction with maintaining its net force. If there is no gravity or not any kind of force responsible for the pull on an object (if we consider them as free-falling object) it does not direct the magnet to specific direction.) It means that there must be some forces acting in and on the object, which direct them and defines their function

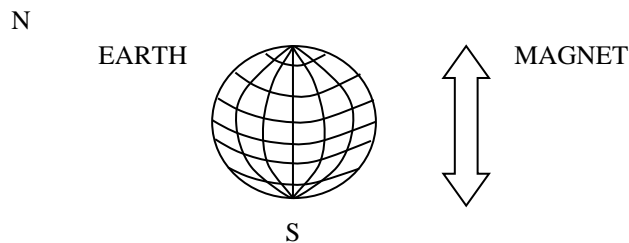


Fig 4: Gravitational field

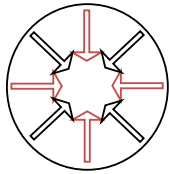
So, with the UPV we can't go with the concept of universe/earth without the gravitational forces (special attraction forces). So believing the presence of attraction we also believe in the presence of repulsion force in an every object. It leads us to believe in the (O) and (I) forces as the fundamental forces of universe.

Each and every single particle, every object in this universe is under these forces, where (I=ISF) trying to reestablish the universal neutrality by pulling towards center [Inward I (+)] while the (O=OSF) pushing away from the center [Outward O (-)] to maintain the instability which was created by it in the universal neutrality. The constant struggle in between these two forces is responsible for the situation we see in this present universe. These two forces (O/I) constantly function with their own way and they are always and exact opposite in every way. Where (O=OSF) as destructive, pulling outward, and accelerating force and (I=ISF) as constructive, pulling inward, decelerating force. They produce a net force field (Nf) by indirectly neutralize each other. But still net force(Nf) can't be zero (as still to achieve universal neutrality) this gave rise to every possible structure we see in this universe and the easiest possible structure what these forces formed are circle.

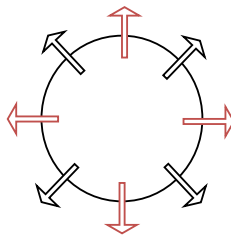
That's why the biggest things in universe we see rotating and forming the circles and rounds. The net force field (Nf) which these (O/I) forces have produced, determines the movement of an object. And when the net force field of a small object comes in the net force field of another large object its net force field will be affected. This net force field can be considered as the gravitational field of a particular object. So, when the net force field of any object come in the net force field of earth then its net field force gets distorted and the extra (I) force applied by earth sufficient to pull the objects towards the center of the earth [as having strong (I) net force field]. Even when the object comes on the surface of earth the extra net force acting on that particular object gives it a particular weight and when we apply or give an extra force to move that object upward the force, we applied increases his (Nf) against the gravitational force and indirectly his net force field allows the object to lift upward.

When this force neutralizes each other, they maintain their inertia with net force field N (near to zero but +), but when object having net force field Nf (---) it will get destroy. And when object having net force field Nf (+++) it will have more attraction/gravitational force on other objects [as earth Nf (+++) than moon Nf (++)]. This is why planets attracted toward other planet but still maintain the distance and revolve around. When extra calculated energy given to an object (rocket) to increases the (Nf) of that object to the (Nf) or gravitational force of earth, it just helps the object to lift up against the gravity. But when extra energy given to an object to main structural form it may destroy his net force field and increases the (OSF) force to a great extent which eventually leads to the destruction of an object.

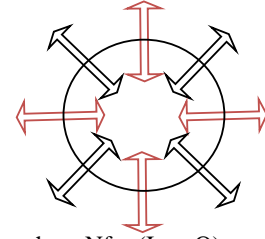
I= (+) inward spring force



O= (-) outward spring force

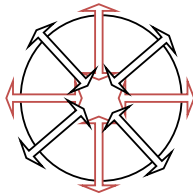


I=O [Nf (o)]



where Nf = (I >= O)

When Nf = (I +) Constructive



When Nf = (O -) Destructive

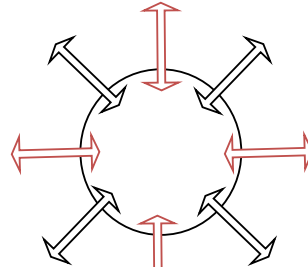
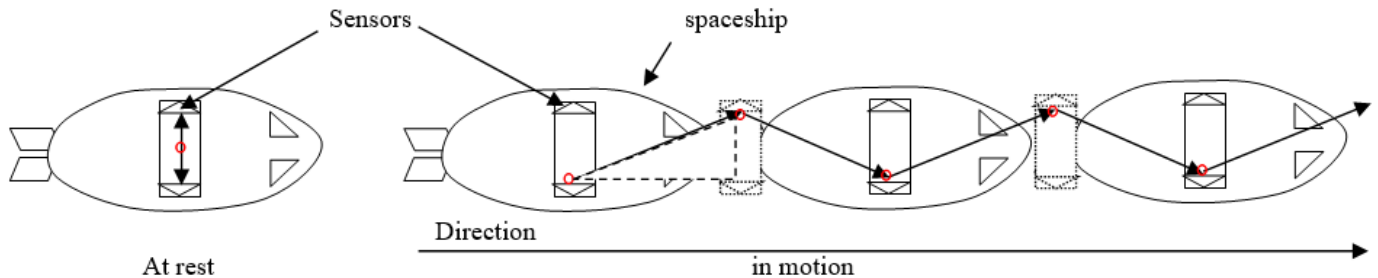


Fig 5: Quantum forces

2.5 (O/I) forces and time dilation

As time is originated with the origin of universe and this universe is progressing and processing only with the changes and its every minute change is attach to time. So, we can't separate time from the change. But we constantly observe the time dilation in the universe. The time dilation explained by Albert Einstein with thought experiment as



(*According to Einstein time slows down with the motion.)

Fig 6: Time dilation Einstein's thought experiment

$$\text{Equation was } t = t_0 / \sqrt{1 - (v/c)^2}$$

We need to understand with the origin of universe and energy started to run through the space and the time runs along with the maximum speed as explained, the speed of light is due to the maximum OSF. But at some point the ISF against the OSF managed to create the gravitation which leads to the production of matter (mass) which indirectly restrict the speed of light and energy that's what eventually created this present universe. We need to understand that this universe and the time dilation we observe is there because the direction of these two fundamental forces are in opposite direction and due to the presence of matter (mass).

The time dilation what we observe as because there are two opposite forces working in two opposite directions where OSF pushing the space and universe apart with a particular speed and time. While the ISF is pulling the universal neutrality and the released energy which was lost in big bang in exact opposite direction of OSF to reestablish its neutrality back, To do so ISF had a strong struggle and finally managed to convert a part of energy to mass with which it has formed a present planets and galaxies in this universe. Which in somehow directing in opposite direction of OSF, expansion of universe and the space time arrow, That means time looks like runs in different way under the effect of these two different forces. Under maximum ISF time feels like moving fast and under the OSF moving slowly. But when an object with a mass which is product of the ISF tries to move in space out of his present net force field it feels the time dilation (observational) as he will be on his own net force field without any extra net force field. Therefore, we can say the universal time flow gets bifurcated due to the opposite directional flow of ISF and due to the presence of mass.

But we must remember that the forces behind everything are these two fundamental forces [OSF =O (-) & ISF =I (+)] which are always in opposite.

Table-1: (O/I) Forces in space and on earth

F = m*a so O (-) = m*a then O (-) = a =C (when m is zero)		
(But if mass increases then speed of C and O (-) decreases.)		
Under OSF (In space)	IN UNIVERSE	Under ISF (On earth)
O (-) \propto a(-)	I (+) = O (-)	I (+) \propto 1/a(-)
O (-) \propto 1/m	BUT	I (+) \propto m
so O (-) = a(-)/m or = e*a(-)	I (+) \propto 1/O (-)	so I (+) = m/a(-) or = m*a(+)
AS 1/m = e		AS 1/a(-)=a(+)
So if O (-) = I (+) then a(-)/m=m/a(-) or e*a(-)=m*a(+)		

Table-2: (O/I) Forces and time dilation

Under OSF (In space)	Under ISF (On earth)
O (-)= OSF(force)=a (acceleration)=S(speed)	I (+)=ISF(force)=a(acceleration)=S(speed) \propto 1/O (-) OSF
O (-)= S = D/T	I (+)=1/ S = t/d (as inverse function & opposite in direction)
a(-)/m=D/T	m/a(-)=t/d
T=m*D/a(-)	t=m*d/a(-)

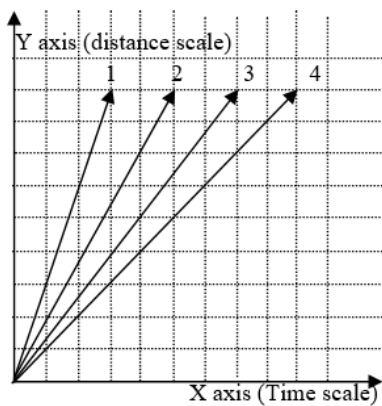
Table-3: Time dilation and mass

TIME DILATION (td) = t-T	
As	t=m*d/a(-) & T=m*D/a(-)
t-T = m*d-m*D/a(-) - a(-)	
so td= m (d-D)/ a(-) - a(-)	
But >>> d-D/a(-) - a(-) = 1	
Sotd = m	

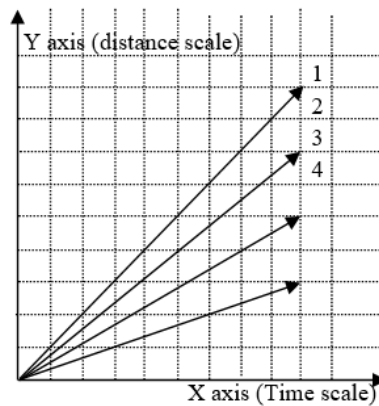
So, as the mass increases relative observational time dilation also increases. That means this time dilation is relative to mass and the observer as mass, because time itself is not any form what we can control or can be mold in anyway. It is just a phrase we can use to understand the changes we observe in form of duration elapsed. This can be understood with an example of racing competition. Conceder 4 runners are in racing competition.

Table 4: Effect of mass on speed

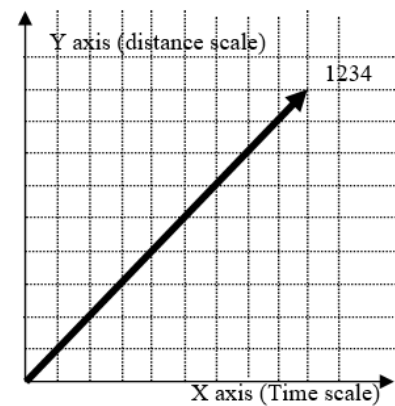
If Distance fixed	Time not fixed	Speed and time will wary	Graph 1
If Time fixed	Distance not fixed	Speed and Distance will wary	Graph 2
If speed fixed	Time and distance not fixed	Indirectly time and distance will be same	Graph 3
If distance, time and speed is fixed and we increase the weight (mass) of every runner with 20 kg difference gradually, then due to the increase in mass graph will be fig 2.			Graph 2



Graph-1: Distance fixed

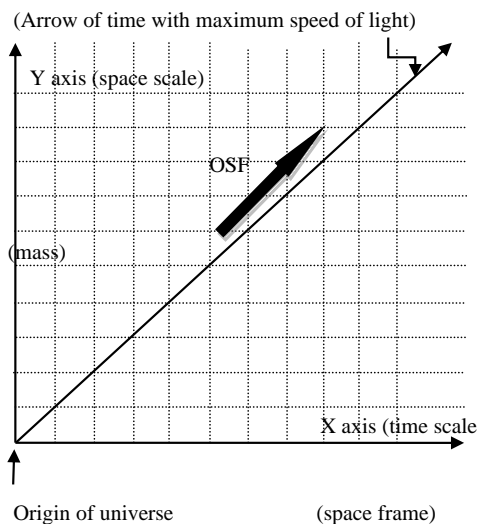


Graph-2: Time fixed



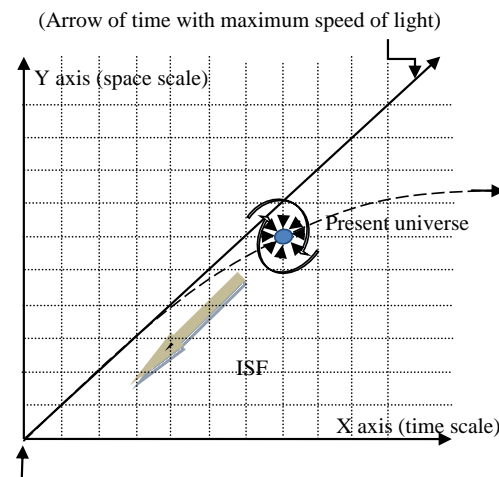
Graph-3: Speed fixed

That's why we can't neglect the mass in every motion and need to concede that the time as universal constant. To understand this we can say we have time scale(Y axis) and the event change scale(X axis) running on universal space.



Origin of universe

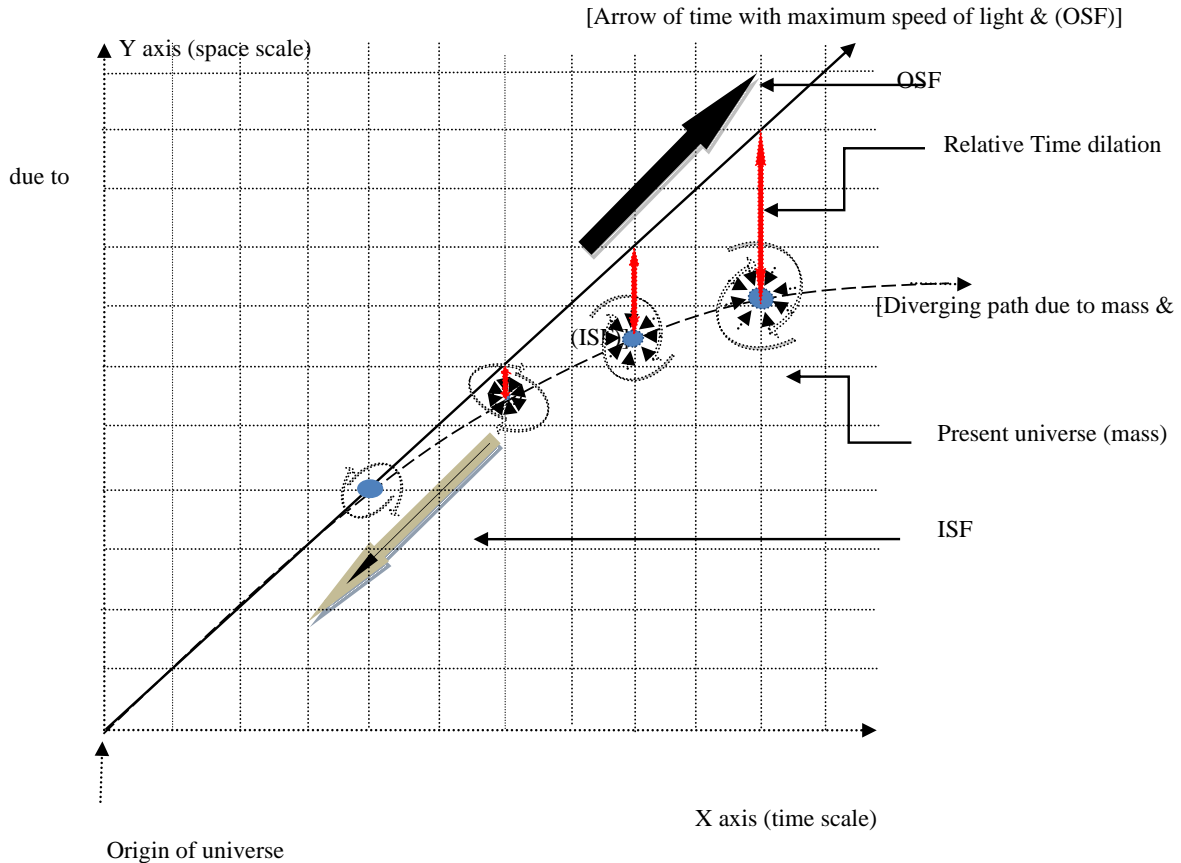
(space frame)



Origin of universe

(space frame)

Graph-4: OSF (O) Graph-5: ISF (I)



Graph-6: (O/I) Forces and time dilation in space

So, it needs to change our perspective to change from relativity to universal point of view.

Table 5: Difference of force and acceleration

In space [acceleration (a) with O(-)]	On earth [Difference of force]	On earth [acceleration (a) with I (+) on mass]
$O (-) = a(-)/m$	Net force $N = I(+)-O(-)$ & $a(-)=a(+)$	$I (+) = m/a(-)$
But $[a = O (-) = (OSF) = C$ (speed of light)] in space & $m \sim 0$.	$N = I(+)-O(-) = m/a(-) - a(-)/m$	But $[a = I (+) = (ISF)]$ on earth But $1/a(-) = a(+)$ = g
$O (-) = a (-)/m$	$N = I(+)-O(-) = m*a(+)-a(-)/m$	$I(+)= m/a(-)$ or $I(+)=m*a(+)$
$O (-)=a (-)=C$	$N = I(+)-O(-) = m*a(+)-e*a(-)$	$I(+)= F = W = m*g$
$O (-)=F=a (-)=C$ (speed of light)	$N = I(+)-O(-) = m*a(+)-e*a(-)$	$I(+)= m*a(+)$

Therefore on earth the maximum force we see is of ISF (as strong nuclear force) which can be concenter as gravitational force N (+) which acts on different masses which gives them their particular weight, but in outer space the mass of light is zero and ISF is near or equals to zero so that the OSF gives maximum speed to light and expansion to the universe. If we apply extra force on object on earth we change the net force on object leads to change in acceleration.

Table 5: Mass and Energy relation

$O (-) = a(-) = C$ (Speed of light) but $OSF O (-) = ISF I (+)$ then $I (+) = a(+)$ = C	
$1/a(-) = a(+)$ (as inversely and equally opposite), if $1/m = e$ (as inversely and equally opposite)	
If $O (-) = I (+)$	If $I (+) = O (-)$
$a(-)/m = m/a(-)$	$m/a(-) = a(-)/m$
$e* a(-) = m*a(+)$	$m/a(-) = e*a(-)$
$e = m*a(+)/a(-)$	$m = e*a(-)*a(-)$
$e = m*a(+)^2$	$m = e* a(-)^2$
$e = m*C(+)^2$	$m = e*C(-)^2$

2.6 Quantum mechanics and (I and O)

Neutrons, protons and electrons as we know bonded in an atom with a strong nuclear force and there is also a week nuclear forces responsible for the radiation and some other activities seen in an atom. This force are nothing but ISF responsible for keeping these small particles intact and for new stable structural possibility and the OSF responsible for keeping the electron away from nucleus and radioactivity seen in an atom and molecule. This is all to reestablish the stability and the universal neutrality back.

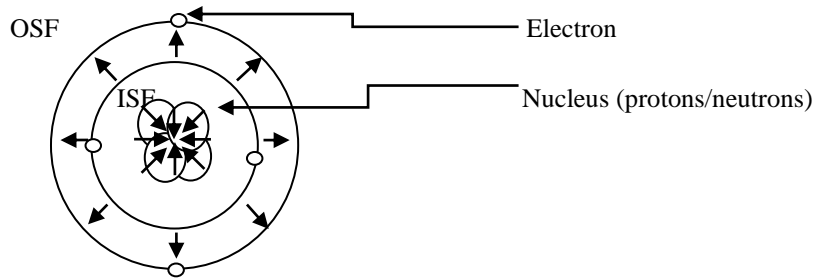


Fig 7: Intermolecular forces

Therefore, we can say that the maximum force can be observed is ISF (net force) as strong nuclear force. These forces (OSF/ISF) are most flexible forces in this universe.

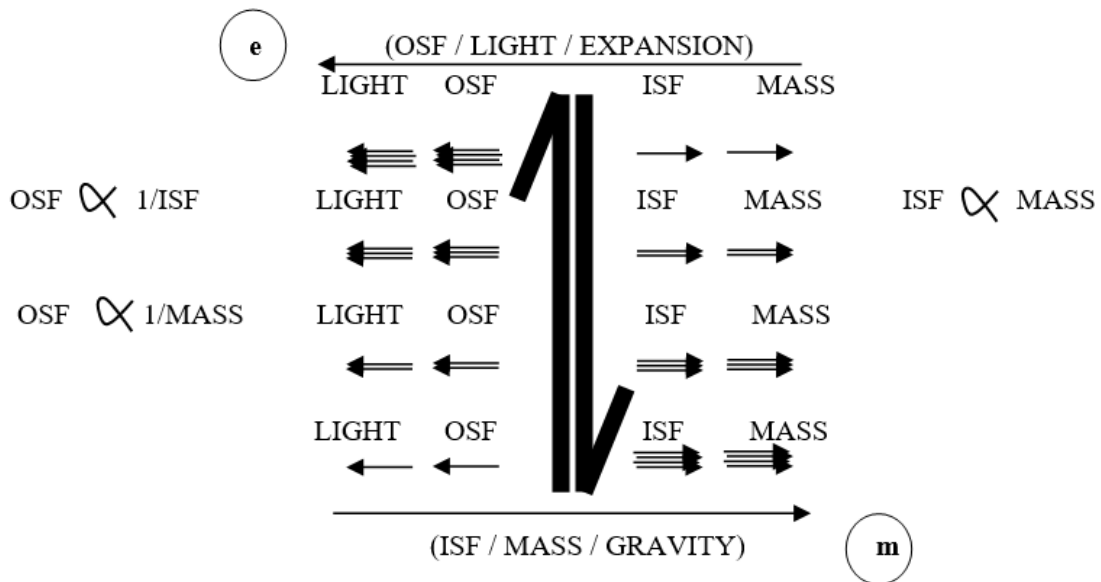


Fig 8: Effect of force and mass energy conversion

That's why when an object tries to move with speed of light its mass increases. And it requires being mass less particles to move with the speed of light.

2.7 Life on earth and unbalanced force (I and O)

As previously explained every object in this universe is under these two (ISF and OSF) fundamental forces. Present earth gone through many changes for billions of years under these two forces. The weather formation and the unique liquid matter (water) formation on earth was the foundation of life. As we know every atoms reacts with other atoms to maintain its stability (existence) by gaining, sharing or giving up their electrons. The different kinds of atoms which were present in liquid matter were following the universal laws and functioning and struggling for universal neutrality. The ISF(+) inward spring force works as attraction force and Constructive where as OSF(-) outward spring force as repulsive force and Destructive but the functioning of these forces altered and the atoms were taken these forces as life instinctive force to maintain existence of life. Some atoms used the ISF as the force to fulfill the needs (attraction/ desire/ lust) to maintain their existence and the OSF as the force needs to protect (repulsion / safety) to maintain existence. This is all to have their stability and existence to achieve universal neutrality, Where this continuous process to achieve universal neutrality leads to production of unique amino acids which progress with the life instinct they have developed and evolved as unique living thing in liquid on earth which have further evolved as different species as explained by Darwin's theory of evolution.

(every single atom,molecule upto the planets and galaxies, every living and the non living thing in this universe and their action and reply is all to maintain their own existence and to servivel. But this all living (survival/maintaining existence with gradual evolution instinct is all due to these two fundamental forces of universe struggling for universal stability and the universal neutrality.)



Fig9: Life and evolution with basic instinct forces

3. RESULT AND DISCUSSION

3.1 N (Universal neutrality) = Nf = I(+)-O(-)

Neutrality of universe was equals to the net force in between these two fundamental forces of universe now these two forces are scattered so leads to the creation and existence of universal as well as every possible existing thing in this universe.

3.2 O (-) = I (+) but O (-) \propto 1/I (+) so a (-)/m=m/a (-) or e*a (-) = m*a (+)

These two fundamental forces are equal but are exactly opposite in every way go they govern and handle everything which exist in this universe with their own nature of force. And the presence of energy, mass and the acceleration working on it is all because of these forces.

3.3 td (time dilation) = m(~~t~~time dilation) m

Time dilation is not related to motion of an object but it is relates to its mass as time dilation is directly proportionate to the mass of an object and this time dilation is observational.

3.4 F = m*a so [O (-) =F=a (-) =C (speed of light)] and [I (+) = F= m*a (+)]

We all know as force is equals to the mass and its acceleration. It means the object will accelerates with some particular force when that particular force/ net force is applied to the particular mass. That's why the photon particles under outward spring force can accelerates outward at the maximum speed (speed of light). And the mass particles or objects with inward spring force accelerate in opposite way.

3.5 N= I (+)-O (-) =m*a (+)-e*a (-)

If we just try to evaluate the neutrality or the net force in this present universe with the presence of mass and energy we can say that the present universe is nothing but the difference of mass, energy and the forces they are exactly under.

3.6 e = m*C (+)2

The energy is not exactly equals to the mass into the square of speed of light but energy is equals to the mass and the square of force or double the exact opposite force of the force the energy itself under.

3.7 m = e*C (-)2

The mass is not exactly equals to the energy upon the square of speed of light but mass is equals to the energy and the square of force or double the exact opposite force of the force the mass itself under.

These results shows that the universe was governed and is governed by these two fundamental forces of universe ISF I (+) (inward spring force we conceder it as gravitational force) and the OSF O (-) (outward spring force we conceder it as dark matter or dark energy). The force and the time dilation we observe are because of the mass and as the mass increases the time dilation also increases. And also the mass and energy can be converted into each other according to the maximum force they are under.

4. FINAL CONCLUSION

Two fundamental forces of universe ISF I (+) (inward spring force we conceder it as gravitational force) and the OSF O (-) (outward spring force we conceder it as dark matter or dark energy) which were responsible for the universal neutrality before the big bang, for the big bang and is also responsible for everything like origin of life it's all evolution and it's functioning on the earth and even the observational time dilation in this present universe. This is all happening to maintain and achieve the universal stability and universal neutrality back.

Table 7: Abbreviations

Nf	Net force	S	Speed
O (-) (OSF)	(OSF---outward spring force)	d	Distance on earth
I (+) (ISF)	(ISF----inward spring force)	t	Time on earth
UPV	Universal point of view	D	Distance in space
Spring	As most flexible forces	T	Time in space
F	force	td	Time dilation (relative observational)
m	Mass	a(-)	Outward acceleration
e	Energy	a(+)	Inward acceleration

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6. REFERENCES

- [1] Alexandra Witze, Nature magazine: "Time Dilation", 2014. [Online]. Available: <https://www.scientificamerican.com/article/einsteins-time-dilation-prediction-verified/> .
- [2] Jeremy Rehm, Science & Astronomy: "The Four Fundamental Forces of Nature", 2020. [Online]. Available: <https://www.space.com/four-fundamental-forces.html>
- [3] Sivaram, C., Astrophysics and Space Science: "Evolution of the Universe through the Planck epoch", 1986. [Online]. Available: <http://adsabs.harvard.edu/full/1986Ap&SS.125..189S/> , vol. 125, page. 189 -199.
- [4] Erik Gregersen (Senior Editor, Encyclopaedia Britannica), Science & Astronomy: "Newton's laws of motion", 2015. [Online]. Available: <https://www.britannica.com/science/Newtons-law-of-gravitation/>

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