Abstract: SPACE is primitive life, intelligence and the ultimate, blissful form of the Powerful Being, which has no particular shape. Life originates only from pre-existing Life. Two greatest mysteries- ‘life’ and ‘gravitation’ are interrelated. Space-realization is essential to find out the answer to both. The cause of gravitation is ‘space evacuation’ (space-entry or space feeding), which is a biological process caused by the Living Universe. All the particles are part of the Great Life of the Powerful Being and everything is inside it. Therefore, nothing in the universe is non-living; it is the local vision that causes the distinction. Every force is a contact force irrespective of whether it is perceptible or not. No space-time warp can cause a motion unless something is pushing or pulling. The local effects of forces should be judged against the tremendous motion every object is subjected to. In gravitation or magnetism objects are pushed by the most powerful entity, the space; but just like gravitation, the weakest of all forces that governs the universe, space remains hidden yet controls everything including DNA replication and propagation of electromagnetic waves.

Keywords: Newton, Einstein, Niels Bohr, Gravitation, Planetary rotation, Relativity

Searching The Powerful Being

“Discovery of space will be one of the greatest discoveries of the century.” -Carl Sagan.

“The idea of gravity acting at distance is so great an absurdity that no man who has in philosophical matters a competent faculty of thinking, can ever fall into it.”

-Sir Isaac Newton

“I am quite convinced that someone will eventually come up with a theory whose objects, connected by laws are not probabilities but considered facts.”

-Einstein challenging Bohr

“An intelligence knowing all the forces acting in nature at a given instant, as well as the momentary positions of all things in the universe, would be able to comprehend in one single formula the motions of the largest bodies as well as the lightest atoms in the world, provided that its intellect were sufficiently powerful to subject all data to analysis; to it nothing would be uncertain, both past and future would be present to its eyes.”

-Perrie Simon de La Place

It is true that only God can fulfil La Place’s mighty concept, yet, I could achieve it to a certain extent by hard work. The final results appear simple but I sacrificed my life for it. I don’t care if it fits into human brain since the ideas like space evacuation, relativity of distance, latent velocity etc. are no less queer than mass relativity and time dilation.

1. Introduction

A hyperdimensional unified theory or a quantum account of general relativity is expected to solve the riddle of gravitation. Is there no alternative?
reading or hearing about it. If she/he crosses the country, reaches a beach, swims in the ocean, tastes the water she/he can realize it to a certain level. If the person engages in scuba diving, the realization is better. Still there are wonderful realms like coral reefs, abyss etc. The more the person explores, the greater is the realization.

There are many different methods for realizing space. The easy method (it may take only a few years or decades) is asceticism. It is not by renouncing one’s duties but performing every work as perfectly as possible in a detached way. One should understand that it is not he/she but the organs only are at work. Gradually, the person will be able to control his/her energy flow and reach a level almost equal to death. One should almost die while still alive to come in unison with space to realize it. Another method is meditation. An introvert can accomplish it faster. The humiliations and sorrows may help to renounce worldly pleasures. Whatever be the path, the purpose is the same - controlling one’s energy flow that differentiates the microcosm from the macrocosm. The people who realized space called it by different names. Yet, to the best of my knowledge, none of them has described the cause of gravitation and therefore, let me venture (I realized space by 28, starting at nine. Now I’m sixty plus). Space is the Eternal Truth and Life. Life originates only from pre-existing Life. Life and gravitation are interrelated!

The cause of gravitation may be unbelievable since belief and understanding are properties of mind.

A convict can produce hundreds of people who had not witnessed his/her act of crime but the court accepts the testimony of a true witness against those hundreds. This is same with space; rely on the words of the one who could realize space rather than of the ones failed to accomplish it. There is the intelligence-SPACE-that creates, maintains and destroys everything. It is everywhere but acts as if it were not there!

Now let us go to the cause and its mathematical proofs. I have a humble request to dear readers. As this is not based on present notions, please keep them, including a few proved concepts in science, aside at least for the time being.

2. The Cause of Gravitation

The cause of gravitational force is space-entry or space evacuation or space feeding. It is a very complicated phenomenon happening at or beyond the velocity of light. When stars produce energy, mass is converted into space, expressing energy. Gravitation is its opposite process. In other words, gravitation is not the conservation of energy, but conversion of space to mass! Mass and space are the two sides of the same thing, not mass and energy. That is why energy can be converted from one form to another. Just think of PE and KE. This would be clear. What does mass do in their interconversion? Any claim of mass-production by annihilation of energy is due to the improper understanding of ‘space’, ‘mass’ and ‘energy’.

Energy is not an entity but an expression of either matter or of space. It was due to the fault in unifying mass and energy that, special relativity could not explain gravitation and Einstein had to come up with general relativity; still compelled to predict the advent of another space concept, challenging Niels Bohr. From a philosophical point of view, with present scientific knowledge, if matter is ‘frozen energy’ or ‘shrunken energy’ (according to Einstein’s equation) why is it not disintegrated back into energy? Does m=E/c^2 tells us of it? This brilliant economical equation, although works well, is a retreat from a very, very complicated problem. Yet it may be considered an outstanding achievement forever because m mass can express only mc^2 energy; the reason behind it (relativity of distance in a tremendously moving universe and hidden velocity or latent velocity thereby) is also very interesting and complicated!

Major Proofs for Space Evacuation as the cause of Gravitation
1) m^3 in the unit of universal gravitational constant.
2) Existence of inverse square law.
3) Coincidence of inertial and gravitational mass.
4) Law of Planetary Rotation.

Proof 1: Meaning of m^3 in m^3/kg^1s^-2 (=Nm^2kg^-2) in the unit of G

Great Newton started his equations of gravitation based on Kepler’s Laws, which in turn, as scholars know, was built on Brahe’s data. Newton was after the effect of gravitation since the genius was unaware of the cause. This space concept is based on the cause. Therefore, new equations have to be developed directly from Kepler, skipping the effect-explaining gravitational equation of Newton. As effect is due to cause, whatsoever new equations developed based on the New Space Concept will be related with Newton’s equation. Then, why should we develop new equations? Surely useless, and waste of time! Newton’s equations on gravitation work well in normal cases except in situations like black holes (there is possibility of space holes also, that, even a supernova explosion cannot create but space can). This attempt is not at all to challenge or change Newtonian equations but to explain the cause. Therefore, please bear with me those who wanted to know the cause.

Kepler did the greatest thing what was possible for that studious genius at his time; T^2 ∝ r^3! Time itself is an illusion and hence, square of time when related to cube of distance was the beginning of a defective science although it has tremendous meanings as long as it works and since a few more equations could also be developed from it. Yet, for a true philosopher it is as meaningless as a mirage and he/she would search for alternatives.

This theory states that space (the ultimate stuff of the universe) is entering en masse to every object that has mass, and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary. The model should express how the space packets, the quanta of energy or fields, are orderly arranged and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary. The model should express how the space packets, the quanta of energy or fields, are orderly arranged and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary. The model should express how the space packets, the quanta of energy or fields, are orderly arranged and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary. The model should express how the space packets, the quanta of energy or fields, are orderly arranged and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary. The model should express how the space packets, the quanta of energy or fields, are orderly arranged and causes the effect of gravitation. To describe the phenomenon of space evacuation, a new elementary particle model is necessary.

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change it causes to particles when each quantum of energy is absorbed or released.

The model should explain why quarks (if any) have fractional charges and how these are assembled to form integrated particles like proton or neutron and they in turn assemble forming bigger clusters that we call ‘atoms’ today. A model that describes these types of things can explain space-entry, the cause of gravitation and other forces like electromagnetic and nuclear forces and other phenomena like quantum entanglement in a better way than any single theory can do today. This is the incorporation of quantum theory into gravitation and other forces. Since the author is unaware of the existence of such a model, a new morphological one is proposed and it is already published in my recent book (the link is given at the end). Lots of mathematical input is required, and for that a person should have profound knowledge in quantum theory and mathematics. Since I, a biology teacher, am not the one suitable for it, let me leave it for the specialists. If anyone is interested, may do it or just leave it! This essay is meant to deal only with the cause of gravitation.

Space-entry is a slow process with respect to a particle. It may take long time for a particular amount of space to get converted into a quantum of matter and to get integrated into a particle. As a body has enormous number of particles the inflow or influx of space becomes appreciable. It causes gravitation. Gravitons, neutrinos etc. shall be there. But these are not the cause. Mind or machine cannot detect space-entry just as we cannot perceive or feel the motion of the earth directly. It is due to the conversion of space to mass that the charge of particles is changing now and then, causing transformation of particles. We can detect the change in charge, but cannot measure the change in mass occurred due to gravitation. Why? Our measuring units are also changing by the same degree!

If a person has ocular limitation in perceiving seawater but only boats and ships, he/she might be astonished watching them disappear into a mighty whirlpool. Gravitation is just like that; one can see materials attracted towards bodies, not them disappear into a mighty whirlpool. Gravitation is just as we cannot perceive or feel the motion of the earth inversely proportional to the volume-wise distance from the central mass (sun) as long as the planets are revolving (Why? Since the volume of space entering depends on the mass of the central bodies, it is a constant for the sun or any other bodies).

By trial and error, it was found that for a given central mass, 

$$v^6 \propto \frac{1}{4 \pi r^3}$$

$$v = k \times 6 \sqrt[3]{\frac{1}{4 \pi r^3}}$$

k is related to G, the universal gravitational constant through

$$\frac{G}{\sqrt{2 \pi}}$$

Had Newton been given g and v

Just for aesthetic value let us see what such a great genius as Newton would have done if he was not given Kepler’s 3rd law and if he were given various data of g at different distances from the sun and v, the orbital velocity of planets at those distances. Certainly, g is calculated using Newton’s equation but imagine it were available using some machine at different distances from the sun. Let Newton be provided with the concept of space-entry!

The sun exerts force of attraction on the planets due to space-entry of the sun. Therefore, the value of g (acceleration due to gravity of the sun, not of the earth) at a particular distance from the sun should be proportional to the orbital velocity at that distance. Or else, they should fall into the sun. By analysing the data of g and v he would find out by trial and error (as Kepler traced out T^2 \propto r^3 by Pythagorean heritage of trial and error) that,

$$v^3 \propto g$$

That is, at r_1, r_2, r_3...r_n, for a given central mass v_1^3/g_1 = v_2^3/g_2 = v_3^3/g_3... = v_n^3/g_n, where, v_1, v_2, v_3...v_n and g_1, g_2, g_3...g_n are orbital velocity and acceleration due to gravity at r_1, r_2, r_3...r_n distance of planets from the sun respectively.

Since g towards the sun is depended on the mass of the sun, he can generalize (if he has such data of g at the position of the earth and a few more) by trial and error as,

$$v^3/gM = c$$

What is the constant? G!

$$v^3/gM = G$$

What is its unit? m^3 kg^-1 s^-2! Why does this m^3 appear? Space is entering volume wise!

It is also N m^3kg^-2, that shows the causative force. Since v = 2\pi T/T he would reach

$$T = 2\pi \sqrt{G/(mG)}^{1/4}$$

This is the same thing that Newton did using Kepler’s law. The cause of gravitation could also have led him to the same derivation.

**Proof 2: Existence of Inverse Square Law**

Sir Isaac Newton mined out inverse square law hidden in Kepler’s law. Newton could not realize space or space-entry...
(though he was very close to truth by attributing space as, ‘dwelling place of God’). It was hiding in $4\pi^2$, which helped him derive it. He considered gravitation acting three-dimensionally; Kepler conceived it two-dimensional.

To heavenly bodies, space enters through an area $4\pi^2$ every second. This $4\pi^2$ area increases with increase in distance $r$ from the centre of the body. When $r$ is doubled the area increases 4 times. If such a space-entry or space evacuation happens it should be a constant volume according to the mass. Since the volume of space enters is a constant, the thickness of space that has to pass through $4\pi^2$ area decreases with increase in $r$ (this may not be the real volume but effective volume causing the force). This results in diminishing of attractive force with distance. The force caused due to space-entry should be directly proportional to the mass and inversely proportional to the area through which it passes.

$$F \propto \frac{1}{4\pi^2}$$ because, the thickness of space passing through $4\pi^2$ decreases with increase in $r$.

Since the space enters is proportional to the mass
For M, where, M is the mass of the body.
For $4\pi^2$, $F = KM/4\pi^2$
Here $K$ is the constant of space entry. There is tremendous philosophical difference between GM/$r^2$ and $4\pi GM/4\pi^2$. The former shows the effect while the latter the cause!

The simplified version gives a false notion that the attractive force between two bodies is inversely proportional to the square of the distance. Of course, $r$ is also distance. How or why the force of attraction should reduce if space is absolute vacuum? Particle exchange is not at all a logical justification for the attractive nature of gravitation although it may be useful to explain repulsive forces.

**Proof 3: Coincidence of Inertial mass and Gravitational mass**

Gravitation is a continuous force. Even if the body is falling (merging) freely, the force is still there and hence the body is accelerated continuously. It is not like any other contact force. As stated earlier, gravitation is caused by the incoming space. A freely falling body obeys the nature of space in a gravitational field and hence it undergoes weightlessness.

Blocking an object against gravitational field is equal to accelerating it against relatively stationary space because gravitation is incoming space. When someone measures inertial mass and gravitational mass, the person does the same thing although he/she is using totally different methods and equipment! There are no two masses!

$$\text{Mercury} = \frac{(5.791 \times 10^6 + 1.1228554 	imes 0.00292 \times 1.989 \times 10^3)}{24570.677 	imes 22939700} \times \frac{5019734 \times 58.0978}{1.5343822 \times 10^3} = 7709702 \times 10^3 \times 10^3$$

$$\text{Venus} = \frac{(1.018 \times 111771 \times 1.00596 \times 1.05937 \times 0.00292 \times 1.989 \times 10^3)}{374206.77 \times 0.00106134} \times 6051800$$

How can someone get two different values when he/she is measuring the same thing? Since the person does not know what gravitation is, he/she thinks that he/she is measuring inertial mass when an object is accelerated at the same rate at which it would fall. Here, this space concept challenges analysis and deduction conducted by human mind!

**Proof 4: Possibility of a Law of Planetary rotation**

Much is there to talk about the deep theory behind the following equation developed through trial and error based on the secret of life and cause of gravitation, but since it is beyond the scope of this essay, just the equation is presented here. Time of rotation of planets,

$$T \equiv \frac{d^{2/3} \times (1+e)^{3/2} \times (1+\tan \text{incl})}{V_s \times K \times C_m}$$

Here, the value of $K=0.00292$

**Calculations using the formula,**

$$T \equiv \frac{d^{2/3} \times (1+e)^{3/2} \times (1+\tan \text{incl})}{V_s \times K \times C_m}$$

<table>
<thead>
<tr>
<th>Planets/ bodies</th>
<th>Observed time (in days)</th>
<th>Time obtained using the above equation (in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>58.6462</td>
<td>58.0987</td>
</tr>
<tr>
<td>Venus</td>
<td>243.018</td>
<td>243.7624</td>
</tr>
<tr>
<td>Earth</td>
<td>0.99727</td>
<td>0.99482</td>
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<tr>
<td>Mars</td>
<td>1.025957</td>
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<td>Saturn</td>
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<td>Uranus</td>
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<td>Neptune</td>
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<td>0.644</td>
</tr>
<tr>
<td>Pluto</td>
<td>6.3867</td>
<td>8.815</td>
</tr>
<tr>
<td>Moon</td>
<td>27.32166</td>
<td>27.1997</td>
</tr>
</tbody>
</table>

where, $T$ = Time of rotation of planets
$K=$ a constant of rotation.
$C_m=$ Central mass (mass of the sun for planets and mass of the planets for satellites)
$d=$ Distance of the planets from the sun;
$e=$ eccentricity of planets $t=\text{Degree of inclination of equator of planets to orbit.}$
$V_s=$ Orbital velocity of an object required at the synchronous satellite position of the sun or any central mass. Taking the rotation time of the sun as $25.38$ days, the synchronous satellite position of the sun is at $2.52815599 \times 10^8$ m away from the centre and hence, $V_s= 72440$ m/s
$\text{Incl.} = \text{Inclination of orbit to ecliptic}$

(Lots of mathematical perfection is required for the above approximation. Our science is yet to begin compared with the mystery of life and death and working of the universe!)
Moon = For the moon, the central mass is the earth and hence data are processed accordingly.

Pluto = Neptune = Uranus = Saturn = Jupiter = Earth = Mars =

Although the revolution of all the planets expresses harmony, it would be a little premature to ascertain that all these are formed inside the system. Intruder will take more time to obey the law of rotation, unlike the law of revolution.

References

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Link to The New Space Concept:
[4] https://www.amazon.com/-/e/B0CLZNZKZK