

# THE REFORMATION REMARK-2018

## 01. Need for Reformation:

The forward march of the **Global Human Civilization** is almost entirely directed by the existing **Global Knowledge Bases**. Then what will happen when the **Knowledge Bases** are filled with all the **unfiltered** experimental **scripts**, uncertain **theorizations** and faulty **conclusions** accumulated through several centuries?

What does the **Global Knowledge Departments** do? The **Unfiltered Knowledge Bases** are conserved and used to set **milestone barriers** (Exams) for Qualifying. Nothing novel could have come out hardly from the **traditional academic process** of research, because the **references** should be abstracted only from the **conserved stock** in the knowledge bases (true or false).

'**Field Specialization**' is the other thing which has badly confined the **Experts** in to a narrow domain of **exposure** by adaptation of separate sets of **Terminology**. As a result **Accessibility** and **Interconnectivity** even between the line Departments have almost held up. The worst of this is, any **alternative** new idea from outsiders is not even considered and condemned as laymen's attempts.

However in this manner nobody will remain in the future to direct the Human Civilization with a **Wholesome Vision**.

## 02. Off the Track?:

- Man is far **conservative** and naturally tends to protect the **Acceptance** from new challenges.
- A long term unchallenged **Acceptance** (true or false) could naturally establish in a society as a **Belief** for the future generations to obey.

I am not talking of **Religions** herein but in the fields of **Physics** there are many faulty theorizations in the **Acceptance** being settled gradually through centuries as **beliefs**.

Teaching all those unfiltered stock, so far accumulated in the **Global Knowledge Bases**, could lead the future generations towards certain lunacy because it is beyond the **carrying capacity** of a healthy human brain.

### 03. My Part:

As an **Independent Explorer** I have struck upon many faulty theorizations in the so far **Acceptance** and some of them are furnished herein for the sake of **Reformation**.

## 1. Conservation of Angular Momentum?:

I believe firmly that '**Rotary Dynamics**' in worlds, as a whole, has not yet been explained well.

- How Earth is rotating? -It is because of the Conservation of Angular Momentum.
- How the Solar System is rotating? -It is due to Conservation of Angular Momentum.
- How the toy Top is erecting? -It is simply because of Conservation of Angular Momentum.
- How a Boomerang is circling? -That is because of Conservation of Angular Momentum.
- How a rolling wheel is erecting? -That is simply because Conservation of Angular Momentum.

The way how above dynamics are explained in the background science by use of the principle of '**Conservation of Angular Momentum**' was not to my satisfaction even from my school days.

I am not hesitated at all to declare that the theory is **faulty** in the first place. I firmly believe that only **Energy** could be conserved but neither **Momentum** nor **Force** could be conserved.

### The Anti-logic:

Suppose your kid is rotating a weight around his finger by means of a string. In this simplest demonstration, the **rotary dynamic system** possesses an **Angular Momentum** with no arguments about that. If suddenly the string is broken what happens? The weight could run across your face in a straight line like a bullet. What happened then to the initial **angular momentum** of the system? Has it been conserved according to the famous theory?

But you would understand that ‘**Kinetic Energy**’ of the system has well been conserved within the system after and before the incident such that;

Kinetic energy before the incident =Kinetic energy after the incident

$$\frac{1}{2} I\omega^2 = \frac{1}{2} Mv^2$$

Where; ‘M’ -mass of the object

‘R’ - radius of rotation

‘v’ - velocity of the object

‘ $\omega$ ’ - angular velocity of the object =v/R

‘I’ - Moment of Inertia of the rotating mass =MR<sup>2</sup>

(The above expression is well balanced, if you do the practical as a proof of how **kinetic energy** of the system has been conserved)

I am not clear of who is the **Founder** of this gloomy theory-‘**Conservation of Angular Momentum**’- because, Sir Isaac Newton had not claimed for such a theory as far as I have explored upon the matter.

And the way how the exemplary rotary dynamics are demonstrated by the Teachers is quite attractive. Students generally keep silence if the subject matter is far from their understanding by thinking that, Teacher could have understood it though we couldn’t. And the Teacher might think that, the Students could have got something though I didn’t.

No... I am telling in certainty that, neither Teachers nor Students could ever understand it because the theory itself is wrong.

As I have observed, one important theory in **Rotary Dynamics** is missing in the so far built up **Global Knowledge Bases**. What is it?

### **Theory of Action and perpendicular Reaction in Rotary Dynamic Systems:**

**If any obstructive force of an Action is applied upon a rotary system, thence a perpendicular Reaction is induced within the system to avoid the Obstacle.**

# Theory of Action and Perpendicular Reaction

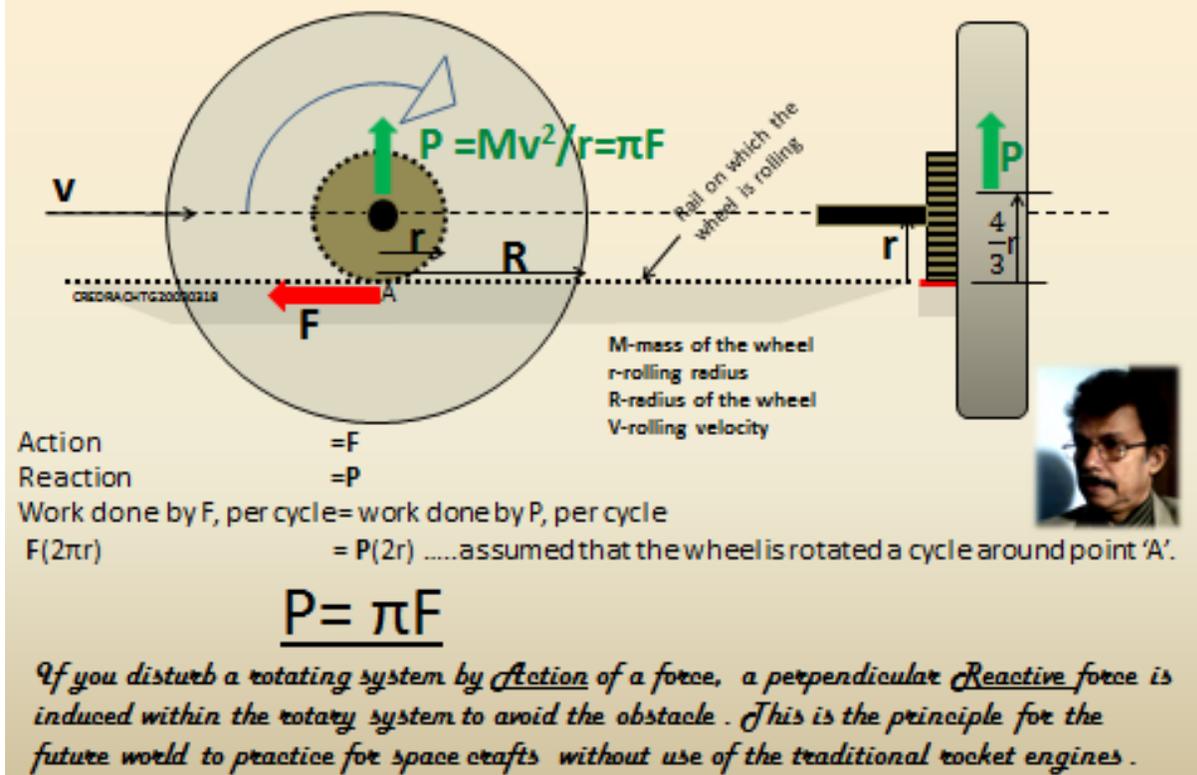


Figure-01 (demonstration of the theory)

## Case Study-01: Erecting of the Rolling Wheel

- It is only your balancing ability if the bicycle could be erected without having any speed.
- But just at the instant when the driving force is applied upon the wheels, you should feel that the bicycle is erected automatically with your entire load and what is that magical force? It doesn't much dependent on the speed.
- At the uniform speed, the driving force is equal to the road resistance and hence the erecting force is lesser than that at accelerating and decelerating phases as well.
- The most important thing is, the erecting force is not received at all when the road is 100% slippery.

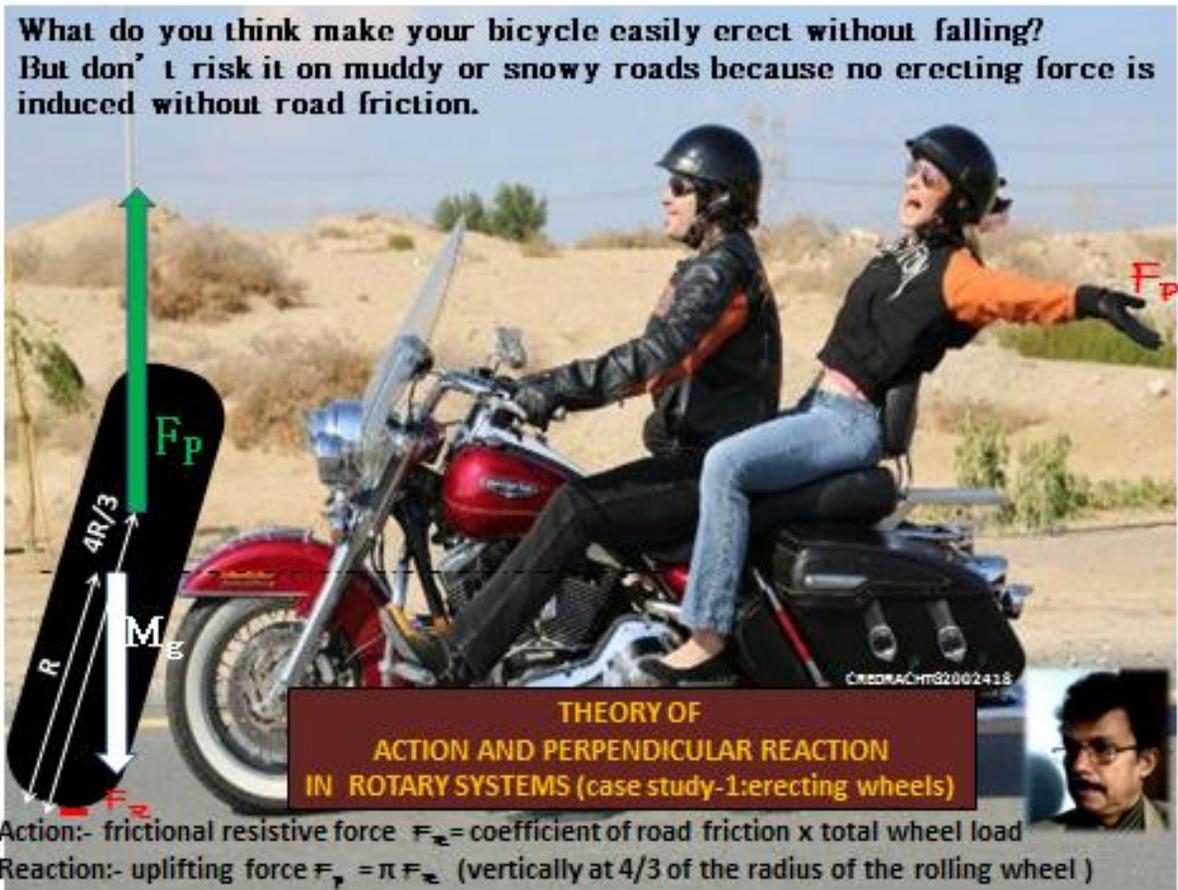


Figure-02 (Demonstration of the erection of rolling wheels)

## Case Study-02: Orbit of the Boomerang

Moving boomerang is a rotary dynamic system with no arguments. The rotation is decreased by air resistance against motion. Resistance is higher at the edge of the boomerang in which side the motion and rotation both is in the same forward direction.

Then the rotary system naturally tends to move avoiding the higher side of the Air Resistance by the induced perpendicular force.

It is a well-known reality that any rotating system tends to conserve its rotating axis.

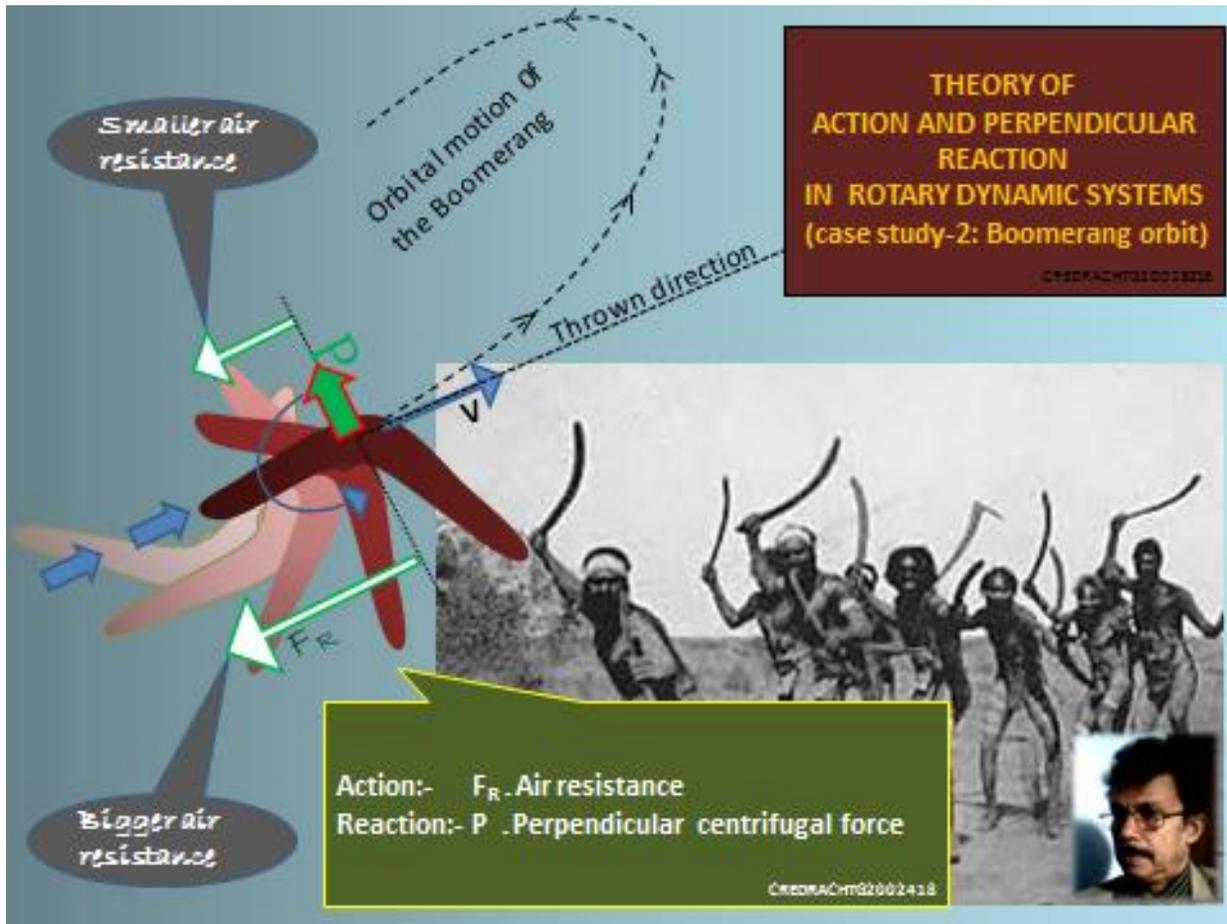
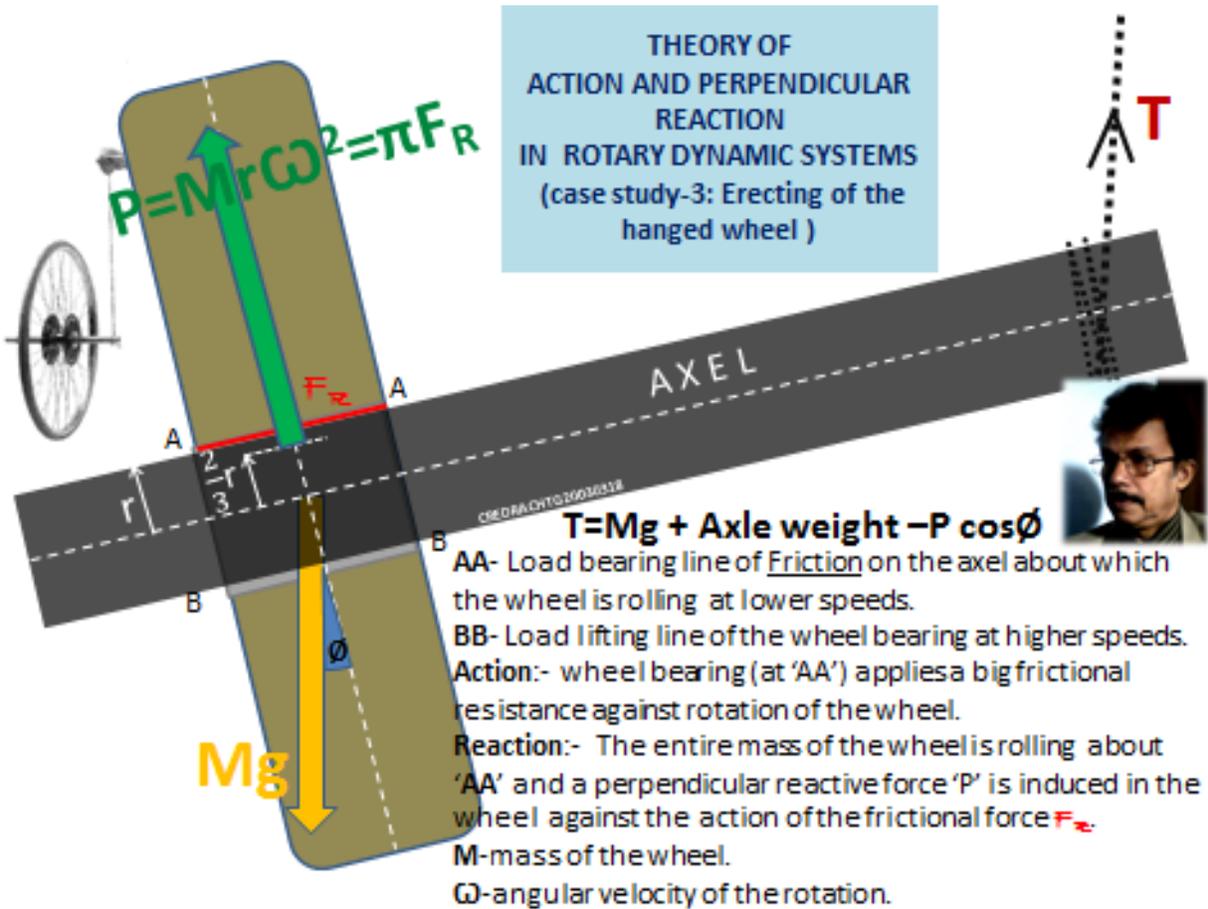


Figure-03 (Demonstration of the orbital motion of a boomerang)

### Case Study-03: Erection of the hanged wheel

Erection of the bicycle wheel is demonstrated by Teachers in many attractive ways but I did not agree even from my school days. What are the points in against?

- 'Hand rule' laws of 'Angular Momentum' to exhibit directions are contradictory and cannot be accepted. Only the 'Linear Momentum' could be shown by a straight line but **direction of angular momentum** could never be represented by a **straight line**.
- Hand rules are usually born whereas the founder himself is uncertain of the **mechanism** behind the phenomenon. Direction of angular momentum of any rotary system could never be directed **along the axis of rotation**.
- As I have explored the case, no erection of the wheel could take place if the wheel bearing is **100% smooth and friction less**.



**Figure-04** (demonstration of the erection of the hanged wheel)

- When the wheel is at partly erected position as shown in the figure, the hanged string is observed to have an inclination to the vertical direction. It indicates that wheel too has to be undergone an inclined force induced in the opposite side for the **lateral stability**.
- When the wheel axel becomes horizontal, vertical stability of the system is exhibited and the hanged string too becomes vertical. The theory of 'Action and Perpendicular Reaction' only can explain the presence of a vertical force 'P' to hold the system at **vertical stability**.
- Why it doesn't go further up if the rotating speed is **increased**? When speed goes up the lifting force too is increased and hence **weight** upon the wheel bearing is **decreased**. Then the frictional force F too is **dropped** and hence proportionately the lifting force P ( $=\pi F$ ) too is dropped and the system will settle back to the **steady state** with horizontal axel.

- But when speed is further decreased gradually due to frictional losses, the uplifting force too is decreased and the axel becomes **inclined** to the horizontal direction.
- In my own case study, a corroded old bicycle wheel was very quickly erected even at very slow speeds than the newly bought wheel with oiled smooth bearings. It also proves that a **bigger erecting force** is created in case with the **high frictional** corroded old wheel.

### Case Study-04: Erection of the child's Top

As a Proof of the theory:

1. Use a frictionless very smooth plane and observe falling of the Top
2. Use a very lean pin for the axle of the Top and observe instant falling

Conclusion:  
' $F_p$ ' is proportionate to the rolling speed. Rolling speed is high when the axis of rolling is highly shifted (eccentricity of the rolling axis)  
In the case-1, no frictional resistance and therefore no ' $F_p$ ' is induced to erect the Top.  
In the case-2, the rolling axis is not shifted and therefore no ' $F_p$ ' is induced to erect the Top.

**THEORY OF ACTION AND PERPENDICULAR REACTION IN ROTARY SYSTEMS (case study-4: 'Child's Top')**

Action :- frictional resistive force ' $F_R$ ' from the plane applied upon the axle  
Reaction:- force ' $F_p$ ' induced in the rotary system to avoid the resistive obstacle.

Figure-05 (demonstration of how the child's top is erected)

- Theory of 'Action and Perpendicular Reaction' only could explain how the top is erected.
- Theory of 'Conservation of the Rotating Axis' only could explain how the spinning top conserves the vertical axis as far as the speed is not faded.

### ‡ Special Note:

When I was playing in the garden about 50 years ago, a disc like steel wheel cover of a passing car, flew over the fence towards the kids like a flying saucer. This small incident never left my mind and at a later stage it helped me immensely to find the theory of 'Action and Perpendicular Reaction' in rotary dynamics.

A flying saucer should certainly fly without use of any rocket or propellers in future by use of the new principle. At the same time I have to declare that any mysterious rotary dynamics in Physics including rotating chairs, gyroscope or rotating discs etc. can be explained explicitly without any reference to the gloomy theory 'Conservation of Angular Momentum' in the background art.

## 2. Reformation Need for Gravity:

By the 21<sup>st</sup> century, even after 400 years from Sir Isaac Newton's publication of Gravity, there is no agreement or convention in the world upon 'What is Gravity?'

Physical behavior of the natural phenomenon was well explained by Newton in the 17<sup>th</sup> century and the subject matter extend that he has developed was based on experimentation and mathematical analysis as well.

As an Independent Observer I have launched nearly a 30 year's exploration to clarify what has gone wrong with Gravity to be an unsolved problem as yet up to the 21<sup>st</sup> century and my views in this regard are furnished bellow.

- I. Newton's Gravity provides a realistic explanation for the Physical Behavior of the phenomenon and it is applicable within the limits of Volumetric Scale of Matter from **Atom** to **Galaxies** with utmost accuracy. Only thing that his 'Gravitational Constant' could be a bit varied as per the fluctuation of Medium (vacuum) properties at the macroscopic level.
- II. Beyond the level of **Atom** in to the more infinitesimal scale of particles of Matter, the same theory of Gravity (but of the **dropped scale** named as '**Moola Gravity**') is applicable. Macroscopic level of worlds (Universes) is governed by Black Hole Dynamics interacting with **Dark Matter** and '**Moola Gravity**' is the bonding agent between Dark Matter too. Moola Gravity is not theoretically different from the Newtonian Gravity but it is much stronger

than the normal gravity because the gravitational constant is much higher. (pl ref 'The Dynamic Model of Atom'/2017 at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) )

- III. **Mechanism** behind the phenomenon of Gravity was not explained by Newton and hence the Scientists of the 19<sup>th</sup> to 20<sup>th</sup> centuries have made enormous efforts to explain it in many different ways.
- IV. '**Curvature of Space Time**' in GR, is an **invention** from Einstein rather than a theory because the mechanism behind Gravity is not explained acceptably enough by it. If Gravity is the force to **attract Matter** in contracting black hole dynamics, then what is the force behind Expanding Galaxies, because Gravity never **repels Matter**?
- V. The **evolutionary** long term changing process in 'Nature Dynamics' could not be visible always though the outcomes that emerge all at once for our observation just as **spontaneous incidents**. Black body radiation is the best example for that and Scientists could have been misguided that **Electrons** are born spontaneously to the world. But the reality is the atomic **nucleuses** are absorbing **heat and light energy** from the surrounding through a long period and when the quantity is fulfilled an Electron is delivered.

I dare say that **Quantum Mechanics** too cannot explain the mechanism behind Gravity realistically because Gravity is neither a substance nor of particles at all. **Graviton** is another invention from the late century. The Scientists of the 21<sup>st</sup> century should not waste time and resources to find something like Graviton in the universe because it is not a Reality.

- VI. **Gravity** is not the **Governing Authority** or the **Deciding Factor** of the Universe. It is a normal phenomenon just like Sound, Magnetism, Electricity and Light& Heat etc. It possesses a very limited capability in **attraction** of **Atomic Matter** only. It cannot attract either **Energy Matter** (such as Light, Heat, Electrons, Solar Wind) or **Medium Matter** (vacuum). Also it cannot **repel** things at all.

When **GR** or **QM** fails to explain the phenomenon realistically, what is the **Mechanism** behind Gravity?

The Reformation Remark of Gravity is furnished briefly bellow and the descriptive references should be made (scripts from my 30 years exploration for Gravity) at

[www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) as 1)-‘Space Dynamics-V2’/2009, 2)-‘Dynamic Stability in Orbital Motion of Planets’/2016 and 3)-‘Theory of Hollow Globes’/2017.

**Definition:-**

**Gravity is born due to a FM wave through the Space Medium (Vacuum) spread spherically out from the source, due to vibration of Atomic Mass.**

**Any secondary atomic body in the field responds to the wave, by induced attraction within. The attraction is but Coulombs’ electromagnetic force unbalance in the atom, due to eccentricity occurred in the direction from where the wave strokes continuously attack.**

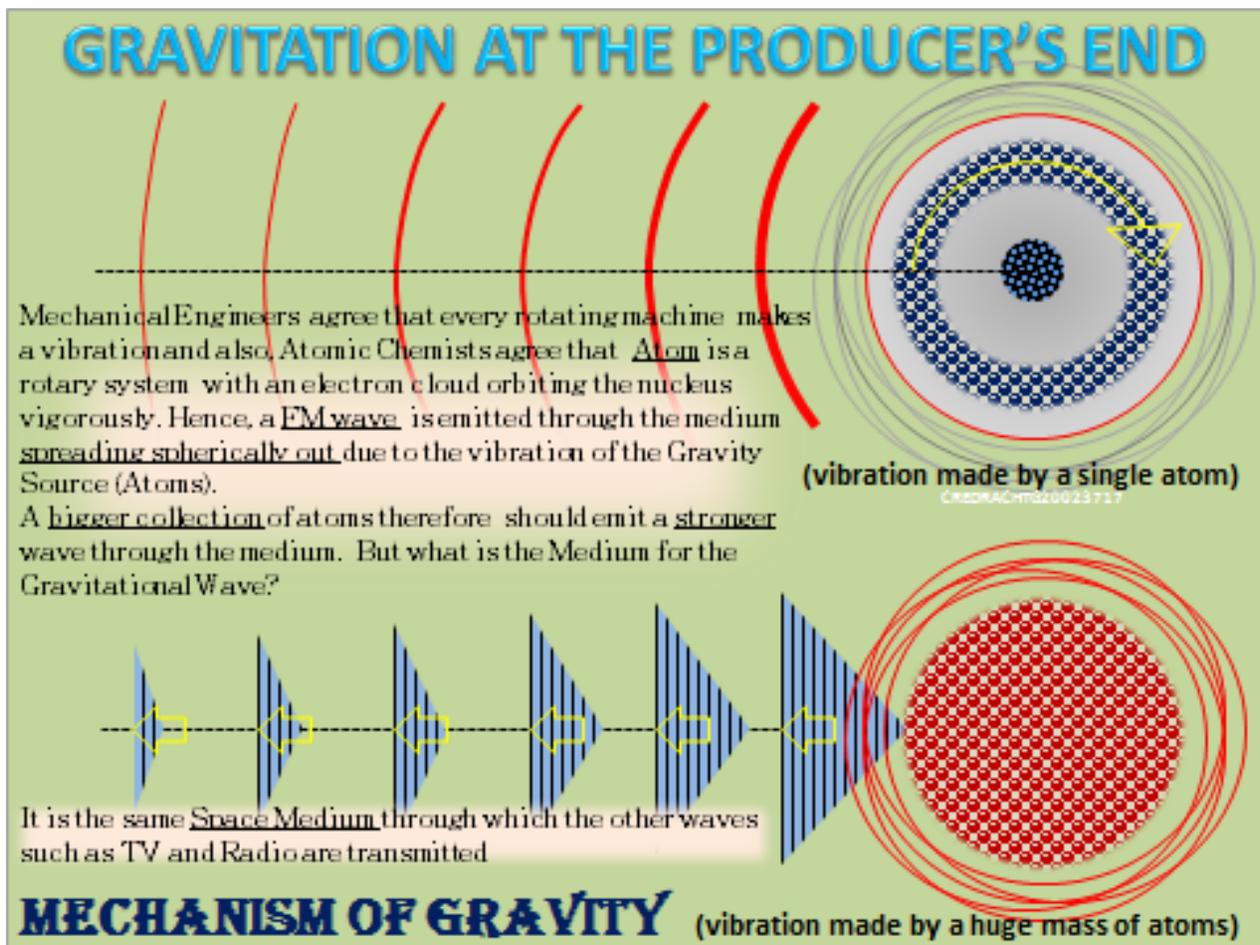
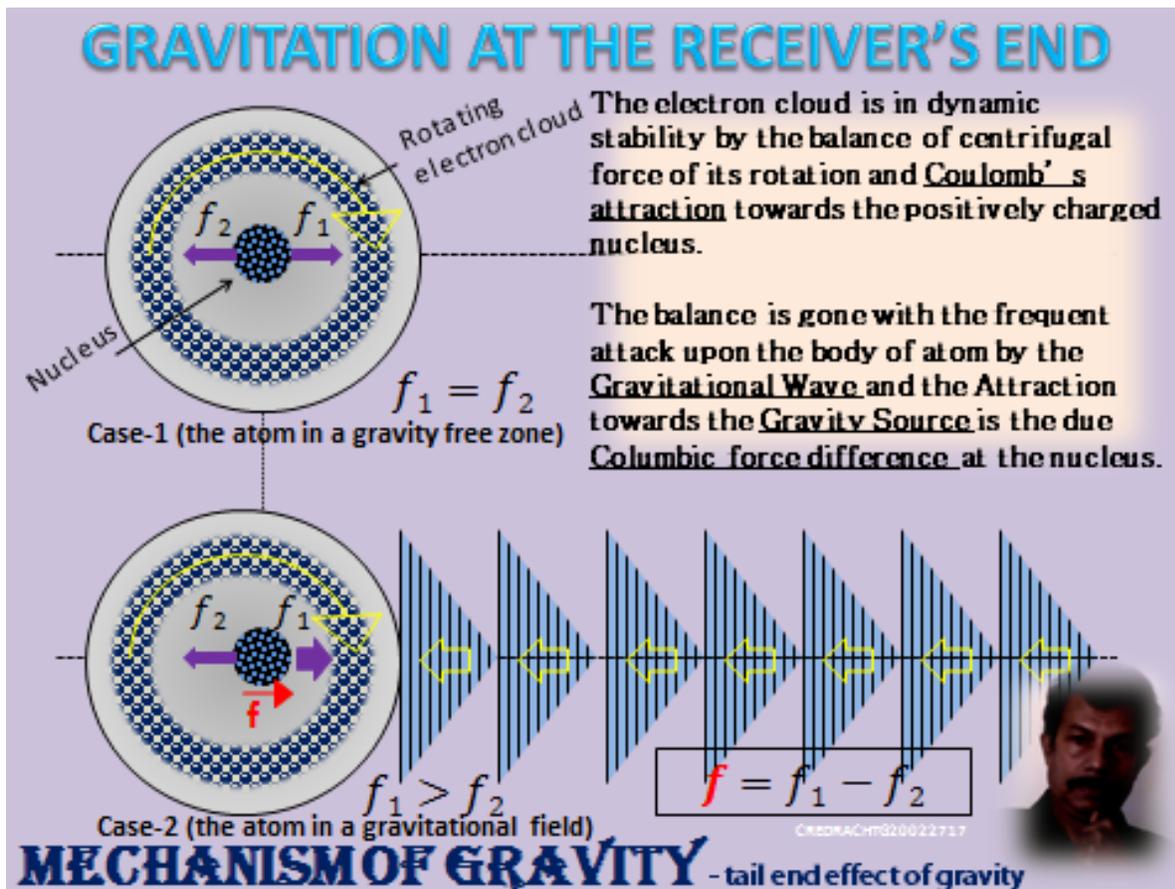


Figure-06 (Origin of gravitational waves)

Not only big masses but even a single Atom emits gravitational waves continuously but they are so weak that just adequate to get closer with colleges as clouds. Cluster communities are formed in Hydrogen clouds in formation of Stars by this manner

and ultimately huge gravity centers are formed as a cumulative effect of the individual Gravity.



**Figure-07** (Demonstration of how atomic bodies are succumbed to Gravity)

The space is filled with gravitational waves transmitting here and there through the **vacuum medium** but only stronger waves from huge sources are dominating in the fields.

The apple was attracted towards the ground, in presence of Sir Isaac Newton, because Earth was the dominating gravity source there.

Sun is the main source of Gravity, dominating in the entire Solar System but each individual body upon Earth is **free from solar gravity** because Earth is **orbiting** around Sun and hence the **gravitational attraction** is balanced with the **centrifugal force**.

But Earth is not orbiting around Moon and hence even though gravity of Moon is so small, it could bring effects upon our bodies and **oceanic tide** as well.

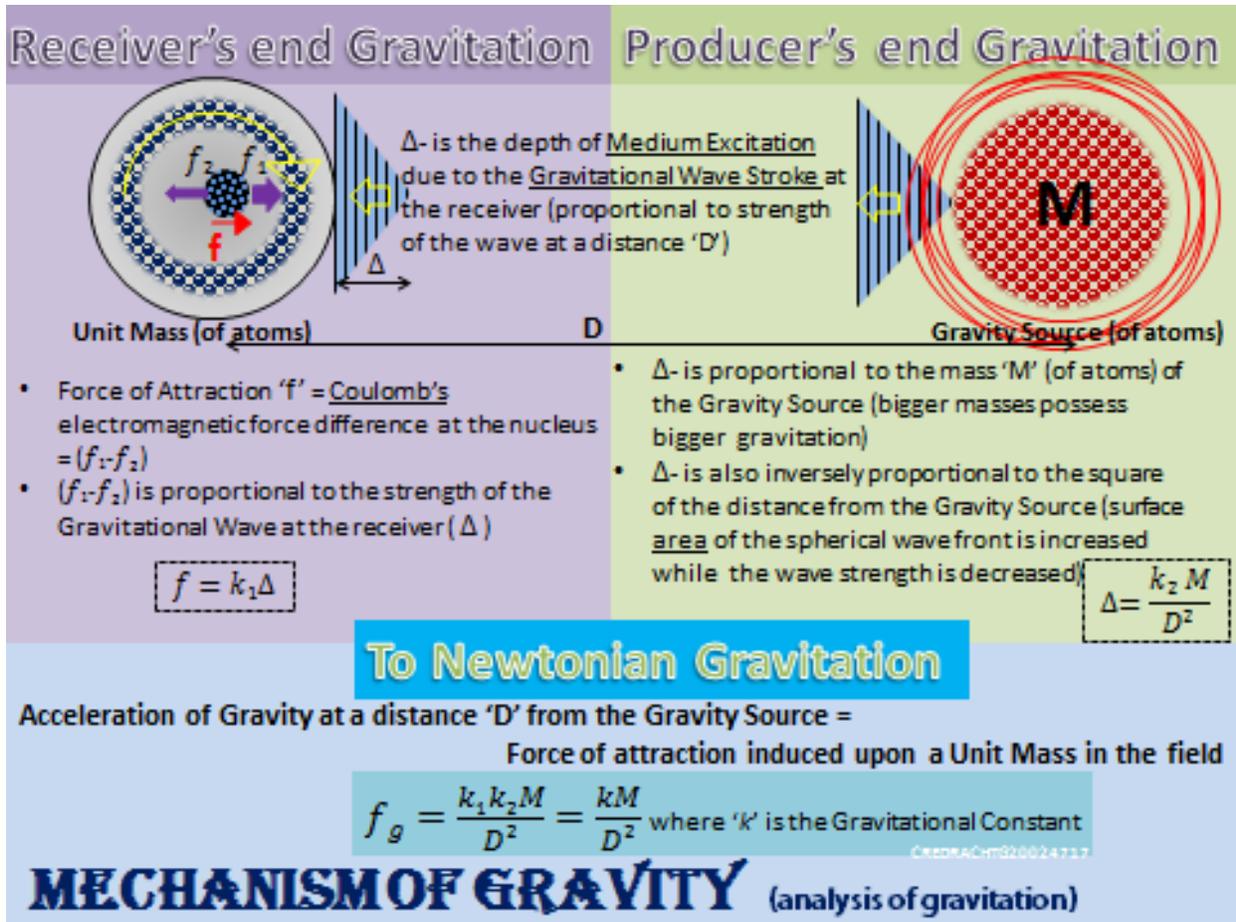


Figure-08 (Analysis to prove Newtonian Gravity by the wave concept)

**FM medium wave** based theory of Gravitation is capable of explaining attraction from the microscopic to macroscopic scale of worlds but I don't think either **GR** or **QM** could explain the attraction between molecular gassy particles of a cloud floating in the sky.

### 3. Reformation Need for Orbital Motion:

There is no need to be worried about an '**Orbital Motive Force**' for the people who are in the belief that Planets have ever been moving around Sun, just as they were tossed by the Universe Builders at the **Origin**.

But when Scientists understood that the free space (Vacuum) is a resistive medium for motion, they inclined to think what could be the **Force** behind orbital motion of Planets to move against the **medium resistance**.

Spinning planets apply the **orbital motive force** in support for their Moons and satellites to revolve in the **same direction** of spinning.

Without having Earth's orbital motive force in support, manmade satellites came down early unexpectedly, when they were set to orbit in the opposite direction of spinning of the Planet.

What is the Supportive Force to move against the Medium Resistance?

The 'Theory of Gravity Deviation'/2009 published as 'Space Dynamics-V2' at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) explain how Gravitation is deviated when the Gravity Source is spinning. It is the **Orbital Motive Force** which helps to orbit against the frictional resistance of the vacuum medium.

## THEORY OF GRAVITY DEVIATION

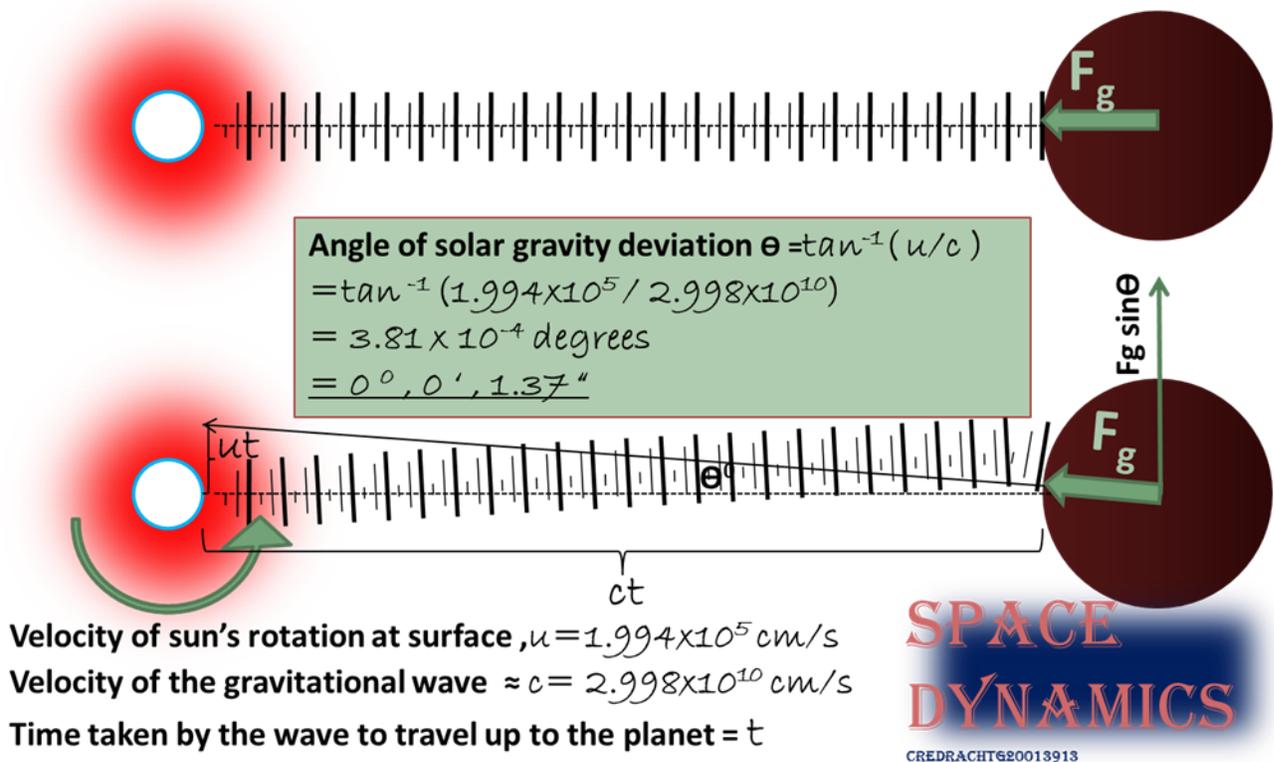


Figure-09 (Demonstration of the theory of Gravity Deviation)

*Theory of Gravity Deviation:-*

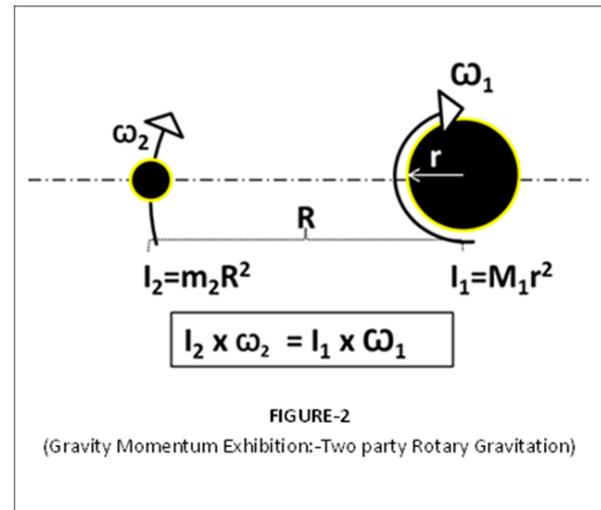
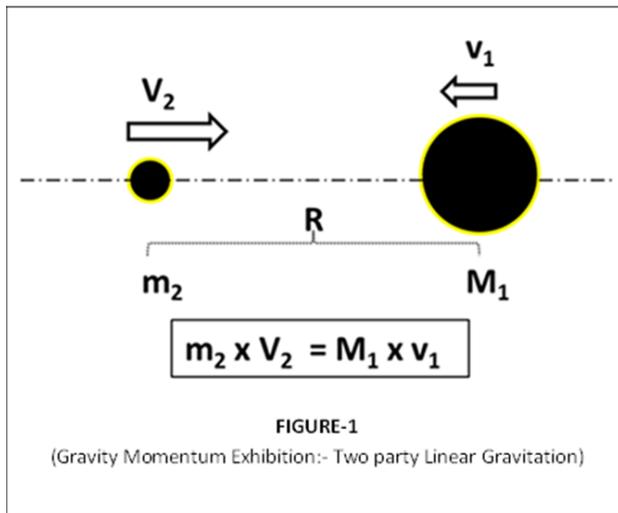
***Influence direction of Gravitational Wave is deviated when the gravity source is at motion***

Special Note:

If orbital motive force and the resistive force upon a planet are balanced then the medium density (density of the vacuum) could be analyzed mathematically. (Please refer 'The Dynamic Stability in Orbital Motion of Planets'/2013 under 'Space Dynamics' at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) to observe how density of the vacuum is varied with the distance from Sun.

The problem 'Why all the planets are orbiting in the same spinning direction of Sun?' is well explained by the theory of **Gravity Deviation**. (I don't know whether GR or QM could have explained the phenomenon in the background Science.)

Theory of Gravity Momentum:



**Figure-10** (demonstration of the dynamic balance in gravitational systems)

Some Scientists are forecasting of future possibilities of collisions of big asteroids against Earth. But don't be afraid of such collisions by asteroids because Earth is spinning and hence before they reach to the close proximity of Earth, they are rotated about by the above explained natural phenomenon.

Even small meteorites could have been rotated around Earth unless the resistive atmosphere breaks their orbital speeds to drag them burning down. Direct hits upon the ground, is possible on Moon because it is not spinning.

Special Note:

Any alien body that enters in to our 'Solar System' undergoes to the orbital motive force of the Solar Gravitation to orbit round without making collides.

Lt's see how Pluto-Charon couple obeys to the 'Theory of Gravity Momentum' just as a case study (as abstracted from 'Theory of Gravity Momentum'/2014 /Space Dynamics at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) ).

## PLUTO-CHARON GRAVITATIONAL SYSTEM



Gravity Momentum of Pluto

$$\begin{aligned}
 & \text{(about center of Pluto)} = [\text{Moment of Inertia}] \times [\text{Angular velocity}] \\
 GM_p &= [(\text{mass of Pluto}) \times 2/5 (\text{Radius of Pluto})^2] \times \\
 & [2\pi / (6.4 \times 24 \times 3600 \text{ seconds})] \\
 &= [(1.30 \times 10^{25} \text{ g}) \times 2/5 (1.18 \times 10^8 \text{ cm})^2] [2\pi / 6.4 \times 24 \times 3600 \text{ ra/s}] \\
 &= \mathbf{8.224 \times 10^{35}}
 \end{aligned}$$

Gravity Momentum of Charon

$$\begin{aligned}
 & \text{(about center of Pluto)} = [\text{Moment of inertia}] \times [\text{Angular velocity}] \\
 GM_{C(P)} &= [(\text{mass of Charon}) \times (\text{distance to Pluto})^2] \times [2\pi / (6.4 \times 24 \times \\
 & 3600 \text{ seconds})] \\
 &= [(1.52 \times 10^{24} \text{ g}) \times (1.957 \times 10^8 \text{ cm})^2] \times [2\pi / (6.4 \times 24 \times \\
 & 3600) \text{ Ra/sec}] \\
 &= \mathbf{6.614 \times 10^{35}}
 \end{aligned}$$

A small difference is there to be observed because Charon is not the only Moon orbiting round Pluto. But as a whole, it is the one and only independent two party gravitational system to exhibit almost **Uniform State** of orbital dynamics. Some day or rather in future, Charon will touch Pluto with no collision at all.

### Special Note:

In the case study of Earth-Moon couple, it was observed that Moon's Gravity Momentum is slightly higher than that of Earth. It gives the important message that Moon is gradually leaving from Earth to be promoted as a new planet to orbit Sun.

In the case study of Mars, the Gravity Momentum of Mars is much higher than that of combined GM of Phobos and Deimos. It delivers the important message that Mars is a lost world and its Moons are rapidly descending to hit upon the planet to make huge explosion like collisions in future.

### What is the Reality?

- Some of you would say ‘what is observed is the **Reality**’,
- Some should say ‘what can be tested in the laboratory is the **Reality**’,
- Some would insist ‘what can be proven mathematically is the **Reality**’ and
- Some could think ‘what is logical to mind is the **Reality**’.

Some dynamic systems in **Nature** are being settled from **Instability** to the **Stability** and by observing of them we should not conclude ‘that is the **Reality**’. The **Earth-Moon** Gravitational couple is at a change from **Stability** to **Instability** under circumstances and do we have to accept that as the **Reality**?

### Why Solar System Rotary Dynamics settles upon the Equatorial Plane of Sun?

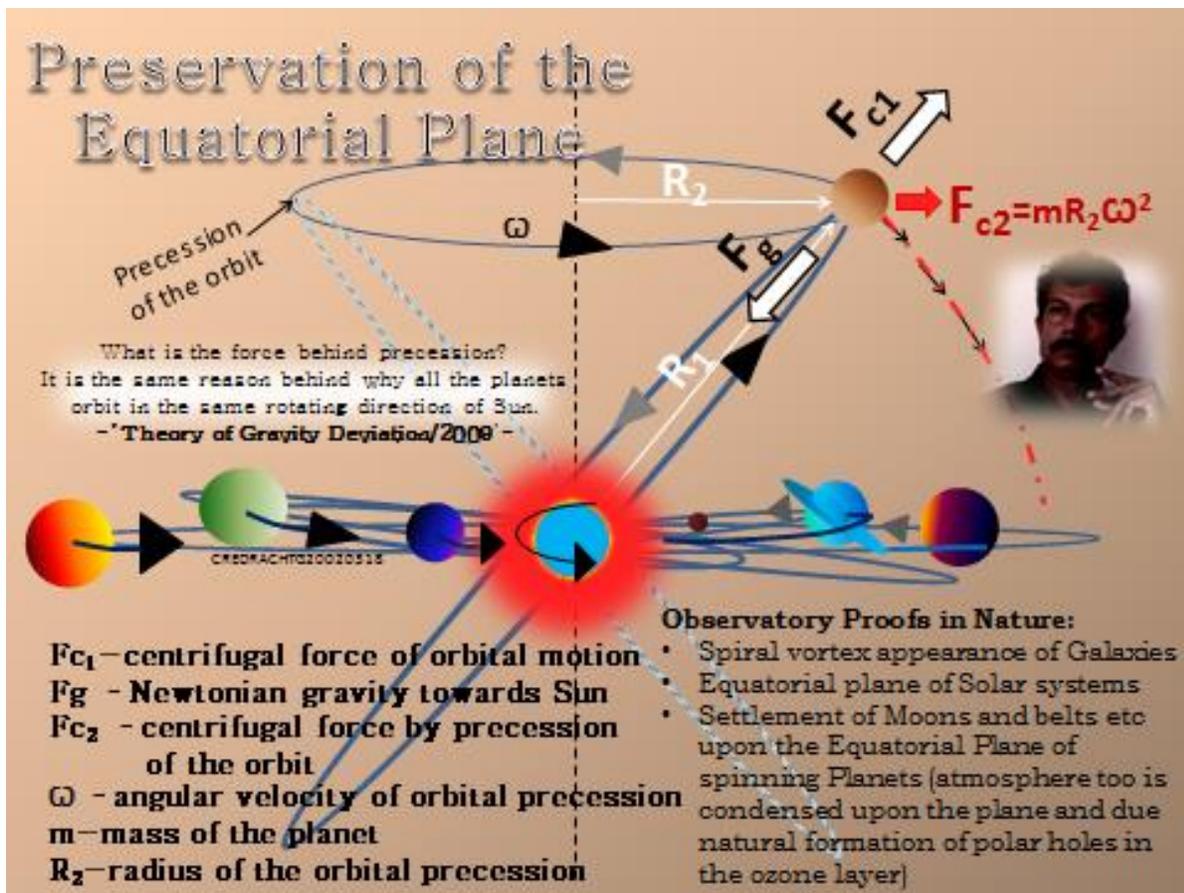


Figure-11 (Demonstration of the theory of equatorial plane)

The ‘**Theory of Equatorial Plane**’ explain us that everything in the Solar System is gradually being settled down upon the Equatorial Plane of Sun. No object of **Mass** is allowed to float here and there spontaneously within the Solar System rather than obeying to the laws of Gravitation.

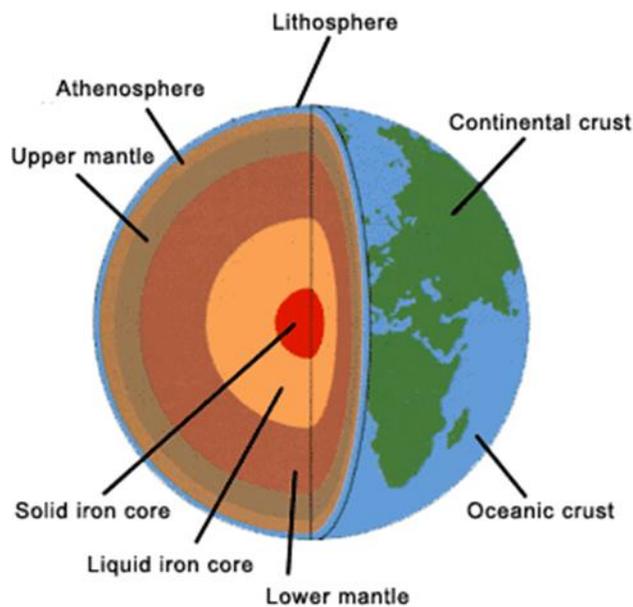
The same phenomenon is common for the **Galactic Rotary Dynamics** too, but **Gravity** or **Deviated Gravity** is not the force behind **Black Hole Dynamics**. (pl ref ‘Black Hole Dynamics’ at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) )

## 4. Reformation Need for the Earth Structure:

### What is there in Earth?

The Earth structure as explained in the Geological or Geophysical knowledge bases is contradictory and there are no provisions to describe the bellow mentioned phenomena;

- 1)-How Earth is **spinning**?
- 2)-How Earth is being **grown in mass** by expanding the gaps between tectonic plates?
- 3)-How could there exists two **magnetic polar axes** in Earth such as ‘Geomagnetic pole’ which is almost fixed and ‘Magnetic pole’ which is gradually running?
- 4)-How does the phenomenon ‘**Geomagnetic Reversal**’ could take place?
- 5)-How earthquakes and volcano activated seasonally almost around the periphery of the Pacific **Fire Ring**?



- The theory of '**Deeper sunken Denser Materials**' explains how layers are formed towards the center of the Globe.
- According to the theory, the highest **pressure** and **temperature** is there at the center.
- **Gravity** is explained to be **zero** at the center.
- Density related depths of the layers are decided to tally ultimately with the **Newtonian Mass** of Earth.

**Figure-12**(The conventional Earth Structure)

### What is Contradictory?

- The theory of '**Deeper sunken denser materials**' should have been accepted if Gravity is either increased or at least kept constant towards the center. But when **Gravity** is decreasing to **zero** towards the center, then how could we expect that the denser materials to be settled down towards the core?
- It is said that the core is of the highest **temperature** but it is still a solid when the outer core of less temperature has melted in to a liquid. The reason could be perhaps the highest **pressure** as expected in the core, but how could pressure grow up there under **zero gravity**?
- As per the description of the conventional Earth model, density is rising at the inner core towards  $13 \text{ g/cm}^3$  or unless the **Newtonian Mass** of Earth could never be achieved ultimately. But what is the **mineral** of that density could be expected there? (density of Iron  $\approx 8 \text{ g/cm}^3$ , density of Gold  $\approx 19.3 \text{ g/cm}^3$ , density of Platinum  $\approx 21.4 \text{ g/cm}^3$ ). It cannot be iron but some **pure metal** which is not appeared as yet in the periodic table. But has Science ever found even a piece of a meteorite having such a big density? No... This narrative is quite contradictory.

A good practical proof is given by the '**Kola Super deep Project** by observing that even hydrogen gas started bubbling out at a depth beyond 12.6 km. Is that a denser material?

Besides that simply less denser magma (about 2.6 g/cm<sup>3</sup>) is formed at far below the ground and compressed out from volcano while more denser minerals such as, quartz(2.8g/cm<sup>3</sup>), marble (2.8g/cm<sup>3</sup>), basalt(3g/cm<sup>3</sup>), hematite(3.5g/cm<sup>3</sup>) etc. are available at shallow grounds.

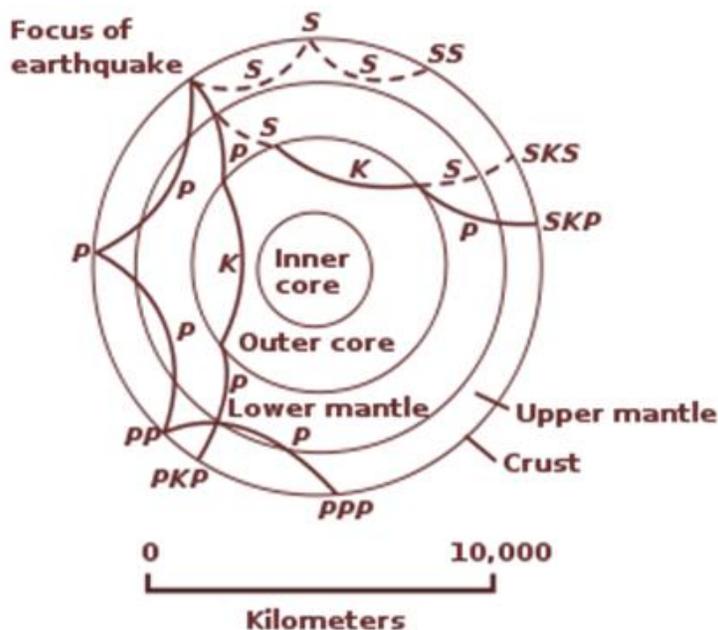
If nobody could investigate beyond some **15km** at most in to the body of Earth, how Scientists could be able to define layers up to the core? Seismological **wave analysis** shows us the way how to do this miracle.

### What Seismology says?

Earthquakes or any artificial explosion of the same magnitude that occur in the crust of Earth creates seismic waves such as **P-waves** and **S-waves** and Reflection of them gives us the real information of the intrinsic layer formation in Earth.

P-Waves are propagating forward as a vibration through the rocky substance in Earth carrying a huge energy stock from the explosion or earthquake. It is spread spherically out from the explosion as a Frequency Modulated-(FM) wave.

S-Wave are propagating in a sinusoidal way with Amplitude Modulation-(AM), spreading laterally starting always from a P-wave.



**Figure-13** (Demonstration of how seismic waves are returned defining layers)

### What is Contradictory?

- As it is observed in the figure-10, the **Reflection** has taken place at the top surface of the ground and how could it happen? That is perhaps may be the **Rector meter** at the recording stations to reflect back the **P-waves** of mighty strength.
- As it is also observed in the figure, it doesn't look a **Reflection** but a **Refraction** what happens at the inner layers. Yes a gradual turn of a wave ought to be refraction.
- Only **S-waves** (of amplitude modulation) could be curved back outwards like that but how could the **P-waves** (of frequency modulation) be curved back towards the surface?
- How could they decide **dimensions** of the Earth core while no wave could even reach towards the center as shown in the diagram?

No this is quite contradictory and it is not difficult to think what has happened in the background Sciences;

- 1) Mass of Earth could have been derived by the great experimental analysis of the **Gravitational Constant** made by Sir Isaac Newton in the 17<sup>th</sup> century.
- 2) The conventional Earth Structure in **Geology** could have been formed in the medieval period by adjusting depths and densities in the medieval periods in the main purpose to tally with the already accepted **Newtonian Mass** of the globe.
- 3) **Seismology** of wave analysis was born quite later on and hence the **Youngest** had to be adjusted by bending his waves in accordance with the concrete structures already established in the **Acceptance**.

### The Reformation Remark:

Though it is difficult to accept by the society, I have got to declare that there is a **Gravity Transition Base** in Earth of different qualities at which Gravity is reversed to be minus. (pl ref 'Theory of Hollow Globes'/2015 at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com))

The properties such as **Pressure**, **Density** and **Temperature** are increased towards the '**Gravity Transition Base-GTB**' and again decreased gradually to be zero towards the center.

'**Theory of Inverted Gravity**' is the phenomenon to explain the big difference occurs at the **GTB**.

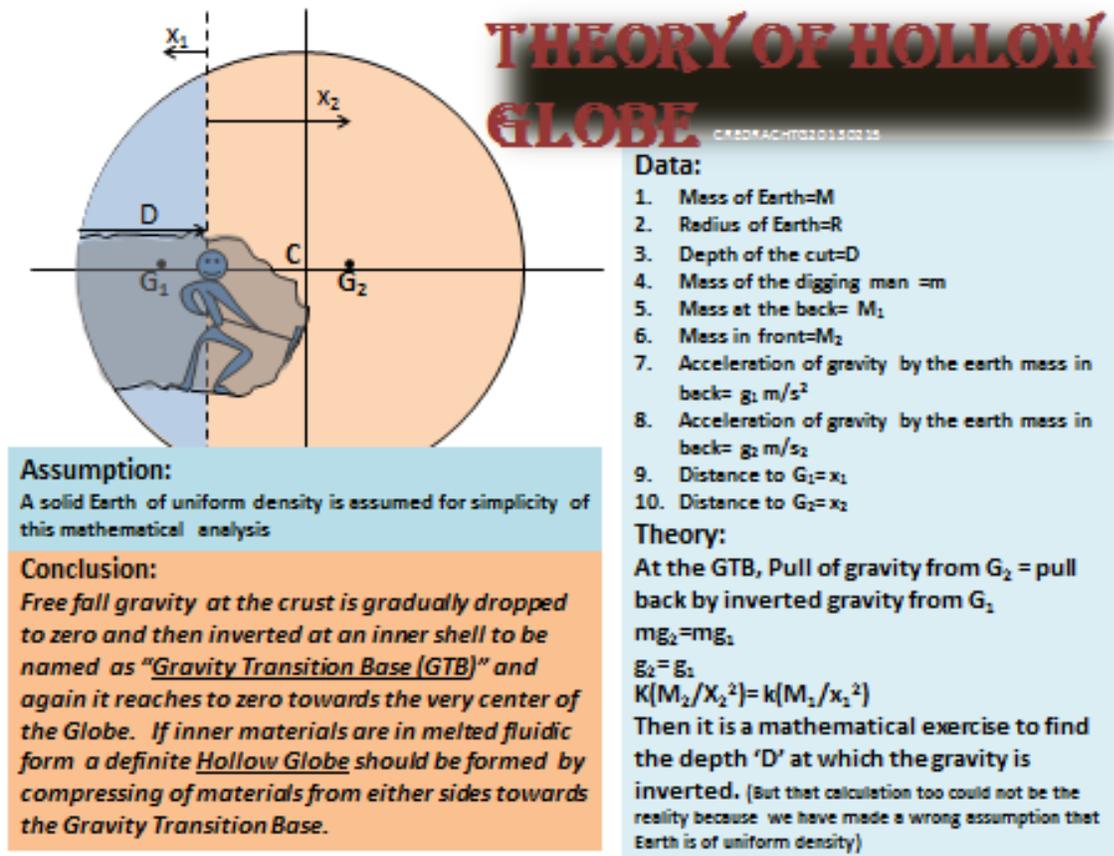


Figure-14(demonstration of how gravity is inverted in the sources)

The GTB as a shell is compressed from both sides such as; by **Gravity** from the outside and by **Inverted Gravity** from the inside. Therefore the highest **Pressure** and **Temperature** in Earth must be at the GTB shell but not in the center.

Seismic **P-waves** are refracted towards the GTB due to increased density and pressure of the medium (just like how light radiations refracted making of a mirage upon a heated road). The deep penetrated waves beyond the GTB are curved up again due to increased density towards the GTB from inner side of Earth.

Seismologists have to pay their attention upon the important matter that, **S-waves** along could never be originated by any explosion or an earthquake. **P-wave** of frequency modulation is the seismic wave carrying a mighty strength and **S-waves** are naturally spread laterally out, by starting always from a **P-wave**.

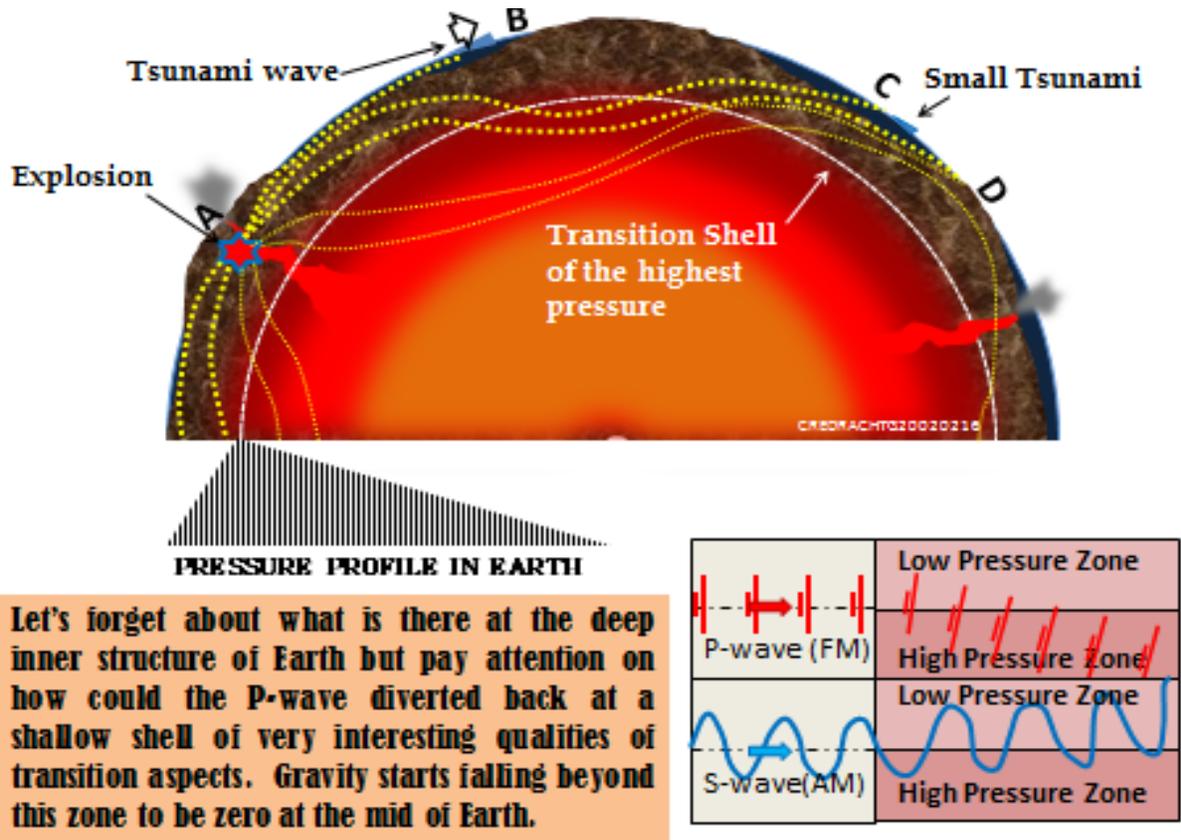


Figure-15 (The realistic way of Seismic P-wave propagation in side of Earth)

What is the Advancement expected by the Hollow Structure?

- **Dark Matter** involved **Rotary Dynamics** in spinning planets is drawn to the subject field as a new concept to be tested for advancement.
- The natural phenomenon with evidences of **Mass Growth** in productive planets is drawn to the subject field as a new concept to be tested for advancement.
- How a spinning planet is **magnetically polarized** is drawn to the subject field as a new concept to be tested for advancement.
- The scope for the known phenomenon **Geomagnetic Reversal** is drawn to the subject field by introduction of the fundamental entity of **Dark Matter** based 'Reversible Rotary Dynamics' to be tested for advancement.

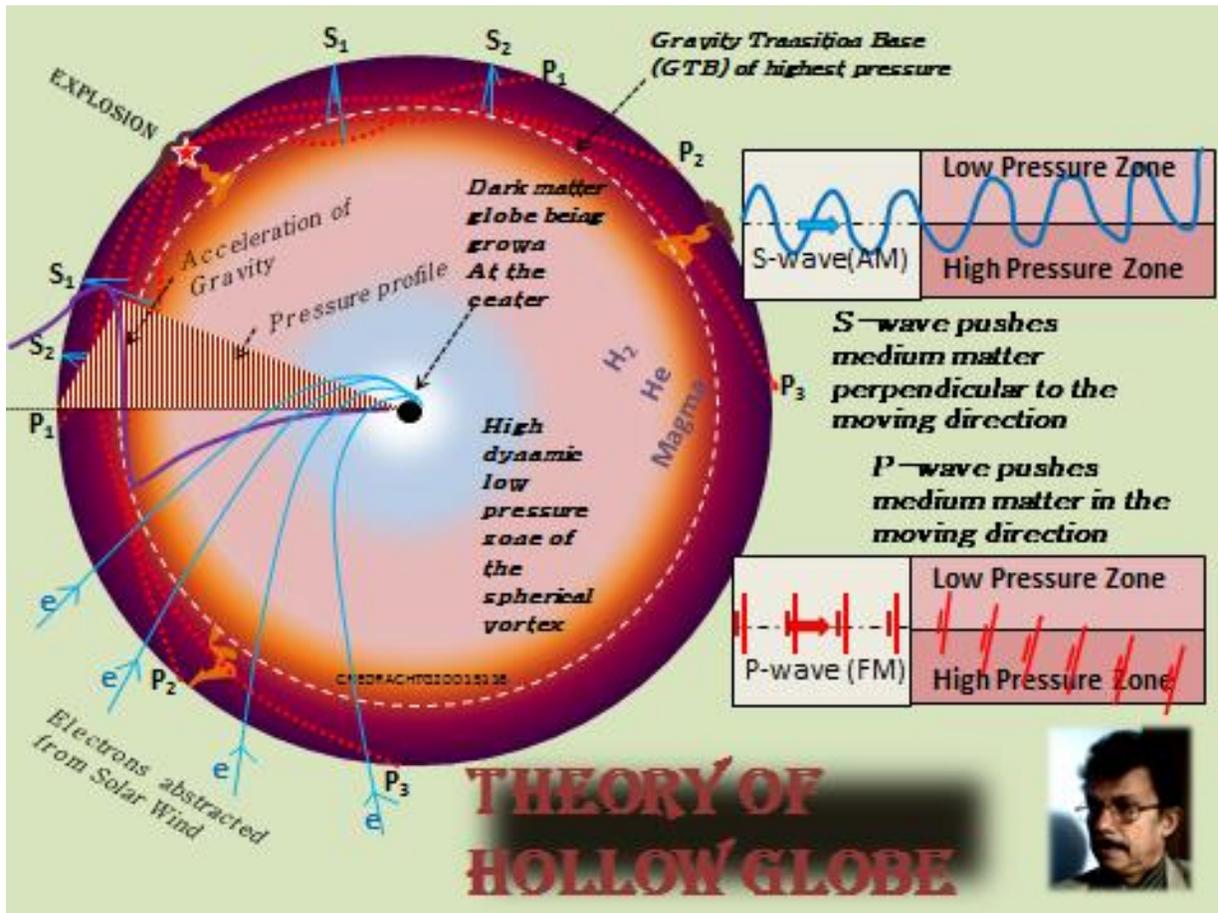


Figure-16 (The alternative model of the Globe)

Mass of Earth is then comprised with not only **Atomic Matter** but also with the **Dark Matter Globe** at the Earth center.

Hence the Scientists of the 21<sup>st</sup> century are fervently sought to launch researches, experimentations and observations upon the alternative scope of testing of the *Fundamental Nature Entity* of 'Reversible Rotary Dynamics' by interacting with **Dark Matter** exhibited from the microscopic level to macroscopic levels of Worlds for **Advancements** sake.

The **Realistic Knowledge** of **Science** is the one and only **soul savior** for the future generation, to be protected against the forth coming disastrous **Geomagnetic Reversal** seems plotting to wipe out the **Great Human Civilization** from the Globe.

#### 4. Reformation Need for Light:

## What is Light?

Present day World seems to be wrapped in a big mess with regard to 'Light' and some people believe that **speed of light** is the **Governing Factor** of these Worlds. And some people are always in **thought flights** moving at the speed of light in the space and imagining how things look and how 'Time' elapses.

I am not worried if people do brain practices floating in the space but when the **Fundamental Realities** at the grass root level are overlooked in **theorizations**, I cannot keep quiet.

## What is Light?

Light is defined in the syllabus as '**Electromagnetic Radiation**' within a certain portion of the electromagnetic spectrum.

I am agreed with only the term '**Radiation**' because Light is not a wave at all, but I have to cut the '**Electromagnetic**' part off from the above definition. That is mainly because 'Light' has no relation at all with **Electricity** or **Magnetism**.

Besides that '**speed of light**' is not a property belongs to 'Light' but it is the '**Critical Speed**', a property of the free space medium called **Vacuum**. Not only Light but other medium waves such as TV, Radio or Radar too cannot exceed the Critical Speed of the medium.

Light is a linear projection of energy particles and it has **three Origins** such as;

- 1) Light & Heat rays are shot out from **skin diffusion** of moving **Electrons** through a frictional medium. (ex:-arc welding, lightening etc..)
- 2) Light & Heat rays are shot out from **skin diffusion** of moving **Atoms** through a frictional medium. (ex:-burning meteorites, cutting metals by grinding wheels etc.)
- 3) White Light rays are emitted by **skin diffusion** of **skin particles**. (ex:- white shining fog around Sun could be observed at a full eclipse, white shining light emitted from a **white dwarf** or from a **supernova**.)

## What is Skin Diffusion?

How do I explain the phenomenon of **skin diffusion** for a world where **Skin Boundary** of particles, as a matter of fact, has not yet even been discussed? (pl ref 'The Dynamic Model of Atom' at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) )

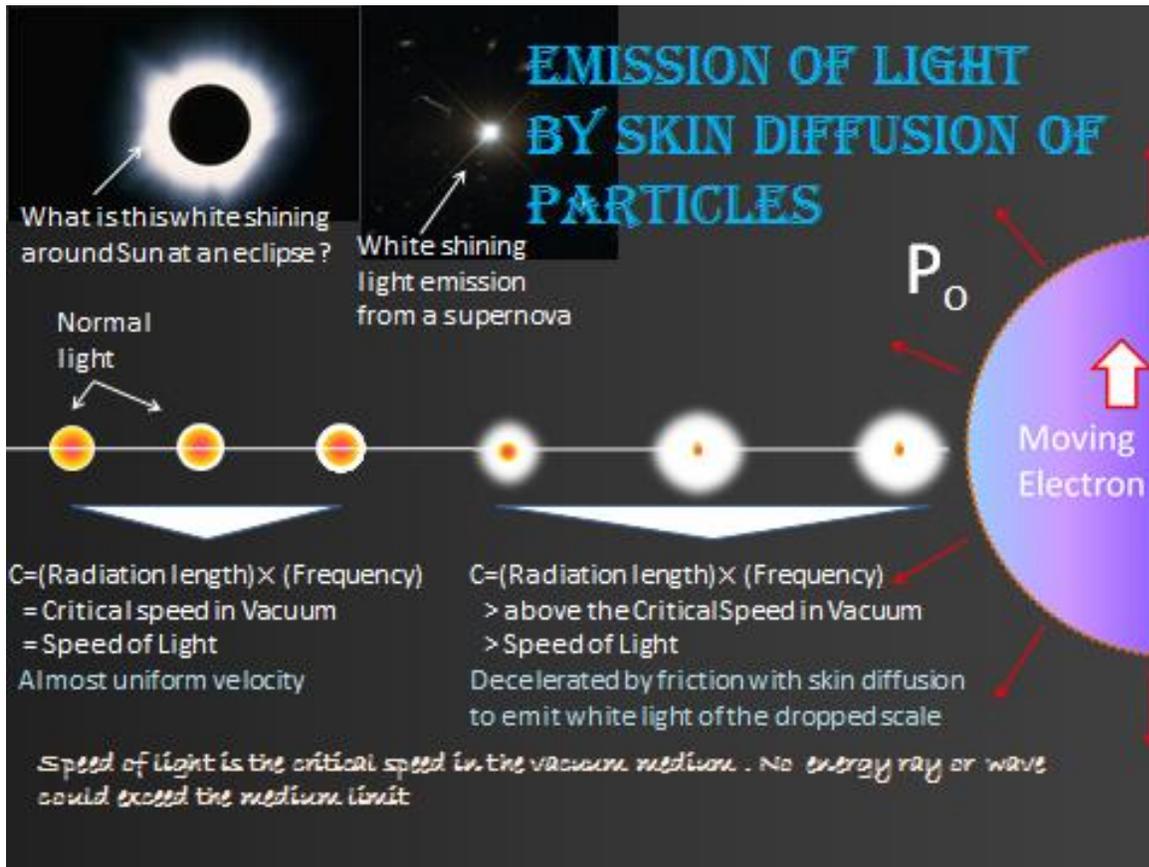
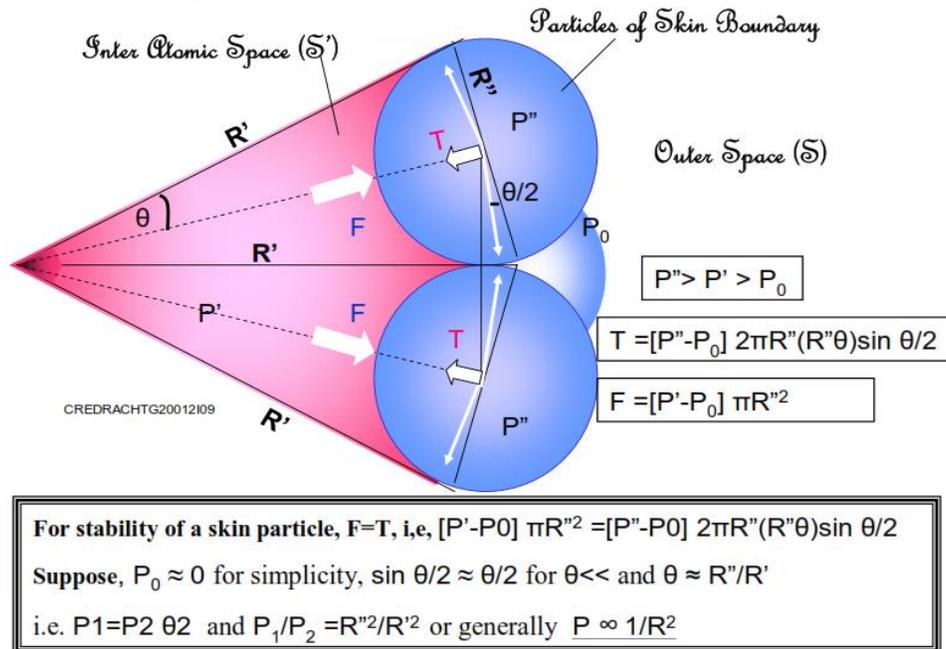


Figure-17 (Linear projection of light particles )

Skin particles of Electrons or Atoms are projected out when external pressure is dropped due to speedy motion through a frictional medium. But even light particles could not exceed the critical speed of the vacuum medium because they also undergo to **skin diffusion** to emit white shining light(2<sup>nd</sup> Light). That is what we observe just around Sun at an eclipse. Supernova and white dwarf too are emitting this 2<sup>nd</sup> Light.

Who is Shooting Light particles?

# SPACE DYNAMICS



**Figure-18** (The balloon like skin membrane is highly tensioned by the pressure gap)

The ‘**Theory of Skin Tensioning**’ is not difficult to understand by the picture and when outer pressure  $P_0$  is dropped then proportionately tension  $T$  is increased. When the skin is highly tensioned interior pressure goes up and skin particles are projected out as bullets. (pl ref ‘Space Dynamics-V1’/2009 at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) )

## Does Light respond for Gravity?

No not at all. Gravity cannot induce any Attraction in the balloon like empty particles of **Energy Matter**. Gravity essentially needs an **interior rotary dynamic** system (in the electromagnetic balance) to induce an **attraction** by its attack with gravitational medium waves. Only the bodies of **Atomic Matter** are hence succumbed to Gravity.

But how is that some people are saying ‘Light’ is bending towards Stars? Yes the observation is correct but theorization is faulty. It is not because of Gravity but light rays are **Refracting** towards it due to increased **medium density** at the proximity of a Star. (pl ref ‘The Dynamic Stability in Orbital Motion of Planets’/2016 under ‘Space Dynamics’ at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) to see mathematically derived variation of medium density within our Solar System)

### Is Light a good Messenger to believe?

I am saying 'Don't believe in Light too much because it is creating Mirages'.

There is a big commotion in the world that the Entire thing of the Universes (Multiverse) is **expanding** violently. Some Scientists are saying that the expansion is accelerating beyond the speed of light.

But I suggest that, Redshift of light could most probably be taken place within our Milky Way Galaxy because it is still at the **Expanding Phase** in its **Reversible Rotary Dynamics**.

There are many Galaxies existing in the **Multiverse** at both phases either in Expanding or Contracting. But the Multiverse is neither Expanding nor Contracting because it is not a **Rotary Dynamic Organization** like Galaxies.

### Does Light possess a Mass?

Light is substantial and it essentially possesses Mass.

Scientists of the 21<sup>st</sup> century has to comprehend the most important fact in Worlds that; "Mass has no independent entity away from Energy". That is as exactly as defined by Albert Einstein's law of '**Conservation of Energy**-( $E=Mc^2$ )'.

Light belongs to one of the three fundamental 'Matter' by which the entire Worlds are formed such as;

- a) **Medium Matter** (vacuum medium and its energy is **Volumetric Energy**)
- b) **Energy Matter** (light, heat, electrons and solar wind and their energy is almost **Kinetic Energy**)
- c) **Atomic Matter** [Atoms and Dark Matter (Moola Atoms of the dropped scale) and their energy is a combination of **Kinetic Energy** and **Volumetric Energy**]

Speed lost 'Energy Matter' becomes static 'Medium Matter' and hence 'Solar Wind' is in between the both phases and it is recharged as '**Electrons**' in the ionosphere.

There is another energy flux in the space, which seems overlooked by Science as yet worth to recognize as '**Galactic Wind**'. Observation of Comets with two tails is an exhibition to understand its existence.

What is Volumetric Energy?

I have never heard anybody speaking of such an Energy and hence I have got to define that too. (Pl consider that this is as abstracted from 'Space Dynamics - V1'/2009).

### 2.3 VOLUMATRIC ENERGY

*Volumetric Energy of matter is defined hereby as the work done by the matter in its expansion from the zero volume in to the present volume, against the external pressure..*

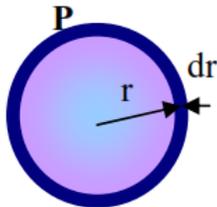


FIGURE-01

$$E_v = \int_0^R P \cdot 4\pi r^2 dr = P \frac{4\pi r^3}{3}$$

$$E_v = PV \dots\dots\dots(3)$$

Where. P-external pressure & V-volume

*Therefore any matter in the space, which holds a volume against the medium pressure, possesses a volumetric energy.*

Let's calculate Mass of Light;

## MASS OF LIGHT?

*Light is not a wave but a ray of line projection of particles. It is a material of Mass and Heat is the bit slowed down phase of Light.*

*Students can prove that by a laboratory experimentation of low cost.*

Increased volume due to the energy input  $= \Delta V = \frac{4}{3} \pi (R^3 - r^3)$

Work done by the balloon against external atmospheric pressure  $= P_a \times (\Delta V)$

**Energy input = Work done**

$mc^2 = P_a \times (\Delta V)$

(Say increased volume  $\Delta V = 100 \text{ cm}^3$  and atmospheric pressure  $P_a = 1.013 \times 10^6 \text{ dynes/cm}^2$ )

Mass of light energy input  $= m = P_a \times (\Delta V) / c^2 = (1.013 \times 10^6)(100) / (2.998 \times 10^{10})^2$

$m = 1.12 \times 10^{-13} \text{ g}$

Figure-19 (a low cost experiment for students to comprehend that light is of mass)

## Speed of Light?

What is speed of Sound?

(As abstracted from my answers to QUORA):

It is the **critical speed** in the atmospheric medium. Then why it is critical? Because, no medium mass of the same **Density** could move faster than that speed. What happens if it goes? Fire comes out to burn the shearing surfaces due to the **Medium Friction**.

Let us calculate speed of sound when atmospheric pressure  $P = 1.0 \times 10^6$  dynes/cm<sup>2</sup> and Density  $\rho = 1.293 \times 10^{-3}$  g/cm<sup>3</sup>.

$$v = \sqrt{\frac{2P}{\rho}} = \sqrt{\frac{2(1.0 \times 10^6 \frac{\text{dyne}}{\text{cm}^2})}{1.293 \times 10^{-3} \frac{\text{g}}{\text{cm}^3}}} = 39,329 \text{ cm/s} = 393.3 \text{ m/s. (dependent upon temperature, humidity etc)}$$

What is speed of Light?

(As abstracted from my answers to QUORA):

Let us calculate the critical speed of the free space medium(Vacuum) when free space pressure  $P = 1.8 \times 10^{20}$  dynes/cm<sup>2</sup> and Density  $\rho = 0.4$  g/cm<sup>3</sup>. (pl refer 'The dynamic Model of Atom'/2017 at [www.cyrilhtgamage.com](http://www.cyrilhtgamage.com) for the analysis for the parameters)

$$c = \sqrt{\frac{2P}{\rho}} = \sqrt{\frac{2(1.8 \times 10^{20} \frac{\text{dyne}}{\text{cm}^2})}{0.400 \frac{\text{g}}{\text{cm}^3}}} = 3 \times 10^{10} \text{ cm/s} = 300,000 \text{ km/s.}$$

## Can't we exceed the speed of Light?

Any space craft made of Atomic Matter cannot even reach to the limit because it has to undergo a **Fundamental Structural Phase Transformation**. The atomic skins start **diffusion** due to frictional burning against the passing vacuum medium.

Then what happens?

White shining Light (2<sup>nd</sup> light) is emitted until the volume of the atom is contracted in to the size of the nucleus.

What is then?

That is the dropped scale of the **Fundamental Matter** and it is the state to be recognized as **Dark Matter**. No difference is there furthermore as protons or neutrons but a substance of the tiniest scale of atoms named by me as '**Moola Atoms**'. ('Moola' is the term to denote 'Root', 'Fundamental', 'Origin'.. etc.- Sri Lankan's old language )

**Dark Matter** only is capable in these worlds to exceed the speed of light. That is what we observe in the dark area of a **black hole** moving exceeding all the critical limits of the speed.

'**Gamma Rays**' too can exceed the speed of light because it's bullets like linear projection of particles are the containers of **Dark Matter**. Where it is to stop there is an explosion (of the volumetric size of  $10^{16}$ ) worth enough to name as an **elementary Big Bang**. If it stops ultimately in an animal cell, a severe damage is expected which could certainly bring carcinogenic effects.

*Special Note:*

*Scientists in the field of particle Physics have an experiment of immense importance to do with **Gamma Rays**. Make a cavity in a steel cube at a length where **Gamma** rays are supposed to be stopped. Then project **Gamma** rays for certain time period and after that, check what is there in the cavity. If Scientists could find **Hydrogen** there, it shall be the greatest finding of the World to explain **Origin** of the Universe.*

## The end Remark:

I am so certain that the Alternative Knowledge Base that I have developed shall not even be considered to test by the World Knowledge Departments of the 21<sup>st</sup> century because the World has already stepped too far for a look back.

But I am so certain that a Reformation Need shall arise someday in future probably by the 22<sup>nd</sup> century, and hence the World is kindly requested to keep these scripts as first hand raw materials for the Future Generations.

# END

*Cyril H Thalpe Gamage-14/04/2018*