01. INTRODUCTION:

Background Art

Momentum and **Angular Momentum** of moving systems has been well defined in the so far known mechanics (Newtonian Mechanics).

Momentum in linear motion, is known as the multiple of mass 'M' and velocity 'V' of the moving object: **L=M x V**

Angular Momentum in rotary motion, is defined as the multiple of moment of inertia 'I' and angular velocity 'ɯ' about the center of rotation: **L =I x ɯ**

Direction of the momentum in linear motion is well defined in Newtonian Mechanics such as the same direction of the velocity of the moving object.

Direction of Angular Momentum as defined in the Newtonian mechanics, is contradictory and could not be proven acceptably enough either mathematically or practically. (The matter has been addressed as a challenge in a previous monograph '**The Alternative Dimension in Angular Momentum**' /Space Dynamics –V4 /2012).

"**Conservation of Angular Momentum**" from the Newtonian Mechanics, seems to be used as a '*Theory for Everything'* by the scientists of the mediatory period, in explaining vaguely all the complicated rotary dynamic systems starting from the child's top to end up with the Solar System. (pl ref. 'Alternative Dimension in Angular Momentum' /Space Dynamics-V4/2012)

02. OBJECTIVE OF THE TECHNICAL MONOGRAPH:

Subject fields could become stagnant with no significant development perhaps for centuries whereas essential **linkage theories** are missing.

As an independent explorer, I have observed that dynamics in the Solar System has not been well defined as yet due to missing of an essential linkage theory named herein as '**Theory of Gravity Momentum**'.

But the readers may grumble 'What is then? Haven't we had enough with the huge heap of existing theories in physics and why can't you explain your new paradox within the accepted theory of **angular momentum**?

Yes, that is also something of angular momentum but the phenomenon is related only to **Gravitation** and essentially for two party gravitational systems.

If I could succeed in answering my kid's question a few years ago, I should not have bothered so much exploring the huge stock of known theories on Earth.

"Father, I can spin this top but who is there to spin planets?"

I was really helpless by then but succeeded after elapse of few years with finding of the **Theory of Gravity Deviation**. It explains how a lateral force component of gravitational drag itself is applied upon planets to make them orbit in the same spinning direction of the Gravity Source. (pl ref. **Space Dynamics-V2/2009** for gravitational wave, gravity deviation and gravity based dynamics in the space)

And now I place a bit developed forms of the question bellow for the reader.

1. Why all the planets to move in the same direction of the Sun's spinning?

2. Who is paying for the huge energy requirement for orbital motion of the planetary system? (Space medium is resistive and therefore motion in it should consume energy)

3. What is the **orbital motive force** on planets and moons caused for their orbital motion? (unless there is such a force in action, the planets should have been drawn radially towards Sun by Newton's Gravity).

This technical monograph is born therefore in the aim of explaining mainly the above questions by the help of so far known theories and the two new linkage theories such as;

1. **Theory of Gravity Deviation-**2009 and
2. **Theory of Gravity Momentum-**2014

03. DESCRIPTIVE ENTRANCE:

There is no argument on the matter that the **Center to Center Gravitational Effect** of any two party system has been defined and theorized explicitly by the great scientist Sir, **Isaac Newton** (1643-1727).

But the special ability of a ***spinning gravity source***, to make the subordinate bodies within its gravitational field, **orbit** around, remained not theorized till the 21st century.

That is perhaps because the scientists of the mediatory period might have thought that the space things have been rotating just as they were tossed in the origin. Or unless that is owing to the wrong concept, that the space is a vacuum with nothing in it and of no resistance against motion.

But in reality, the space is made up of a transparent medium which has the lowest density and the biggest pressure ever known. (Please ref. '**Behavior of the Three Basic Space Matter'/Space Dynamics-V1-**2009 for the mathematical derivation of the properties such as density and pressure of the space medium)

Where there is a medium of matter, there should be **resistance** against motion in it. As a proof of the logic, any manmade satellite shall be fallen upon the earth someday or other by decreasing of their orbital speed due to friction of the space medium.(But exceptionally the satellites which are orbiting in the spinning direction of Earth would sustain long because they are given the supporting lateral force '**Orbital Motive Force**' as explained by the theory of gravity deviation).

On the other hand, the tiniest particles of light rays are weakened in the far journey through the space, by decreasing of their velocity due to **friction of the space medium**.

Then the problem arises 'How could our planetary system exist ever orbiting in against of **Space Resistance**? There is the exact need to look for the missing theories by which the above questions are well answered.

Therefore defining of '**Gravity Based Orbital Motion**' in the solar system is the prime objective of this technical monograph and therein the essential missing principle, "**Theory of Gravity Momentum**" is born.

04. GRAVITY MOMENTUM:

4.1 What is Gravity Momentum?

Gravity Momentum is the gain of **potential work ability** by either party for being a member of any **two party gravitational system**.

Gravity Momentum = (*mass*) x (*velocity*)

GM=m x V

(*It is exactly as what Sir Isaac Newton has defined as* ***Momentum*** *and no difference.*)

It also gives the impression in other words that, a member has gained the ability of, **moving of a mass 'm' ,to a distance 'V' per second**. (but we have to assume that the gravity momentum gained by either party is for no other external reason but only due to the **mutual Gravitation within the two party system**).

4.2 THEORY OF GRAVITY MOMENTUM

In consideration of any two-party Gravitational System at uniform dynamic state, Gravity Momentum of either party is equal.

4.3-Application of the theory of Gravity Momentum for gravity based linear motion:-

Uniform dynamic state for linear motion is defined herein as, **center to center motion with no deviation in the direction.**

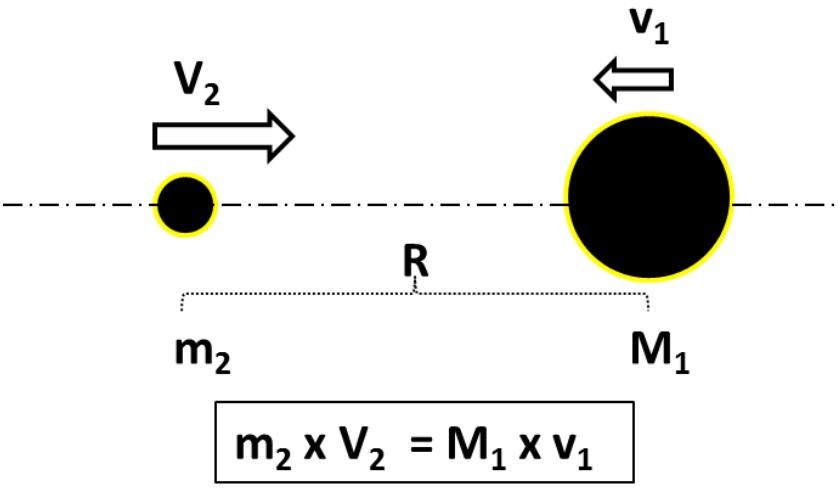

FIGURE-01

As shown in the figure-01, a small object and a big object are placed apart from each other under their own mutual gravitational field. Then they start moving to meet one another by gravitational attraction. After some time both masses gain velocities and according to the new theory, **gravity momentum of both parties are equal in magnitude**.

4.4-Application of the theory of Gravity Momentum for gravity based angular motion:-

The **Uniform Dynamic State** for rotary motion is defined herein as, **moving of the secondary partner on a sharp circular orbit**. At this state angular velocities of both parties remain constant. (But in practice there is no any exemplary gravitational system to demonstrate this theoretically balanced stage)

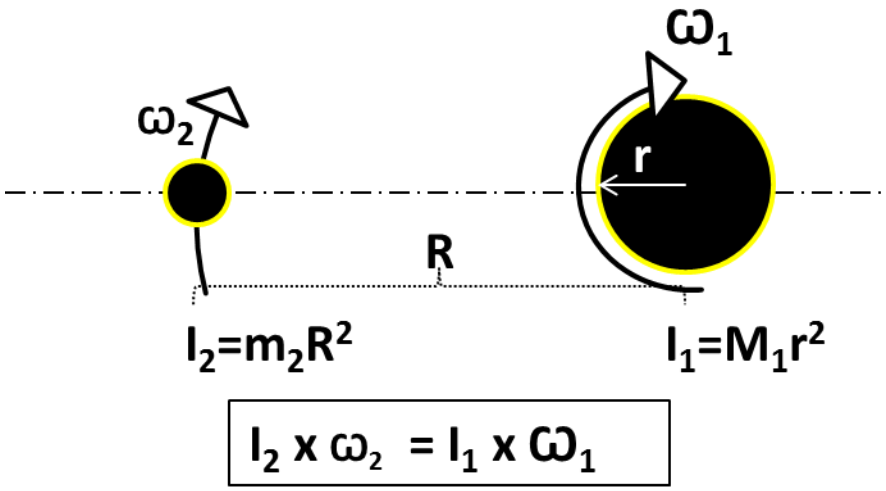

FIGURE-02

As shown in the figure-02, the major gravity source (the bigger mass) is spinning and due gravity deviation makes the second party object (the smaller mass) orbit around in the same spinning direction. (pl ref. theory of gravity deviation/SPACE DYNAMICS-V2/2009)

The theory also defines how gravity deviation of the orbiting object too, applies a force upon the major body mass in support of spinning. (the phenomenon is observed as 'Tidal locking case of rotating systems')

05. DOES THEORY DEVIATE FROM THE REALITY?:

There is no any exemplary gravitational rotary dynamics in the solar system to exhibit the explicit uniform state and due sharp circular orbital motion. That is for no other reason but;

1. *There is no any independent two party gravitational system in the solar system without being interfered by a third party.*
2. *Whence a gravitational rotary system undergoes physical changes such as; internal explosion, collide with an alien body (asteroid), change in spinning speed by inner magnetic field changes etc., then the gravitational stability of the system is gone and the system deviates from the* ***Uniform Dynamic State****.*
3. *It could take long time duration for the transition from instability to stability and therefore scientists should not be hasty in forming theories by observing a snap shot of the space.*

06. CASE STUDIES:

A reader may question then',
"what is the use of case studies to prove your new jargon, if it deviates from the Reality?

"It should be the other way round and the Reality seems to deviate a bit from the new theory."

"Ah! what do you mean by Reality then?"

"The natural happening to be observed in frequent occurrences is accepted by people as the Reality. But in a world where everything is at a change the theory has to be accepted perhaps as the reality".

However the reader would be expected kindly to have some patience to see following case studies too, before rejecting or accepting the new theory.

Let's consider the closest gravitational system to us, the Earth Moon couple, at first.

6.1 Earth Moon Gravitational System (Case Study-1)

CASE STUDY-1: EARTH-MOON GRAVITATIONAL SYSTEM

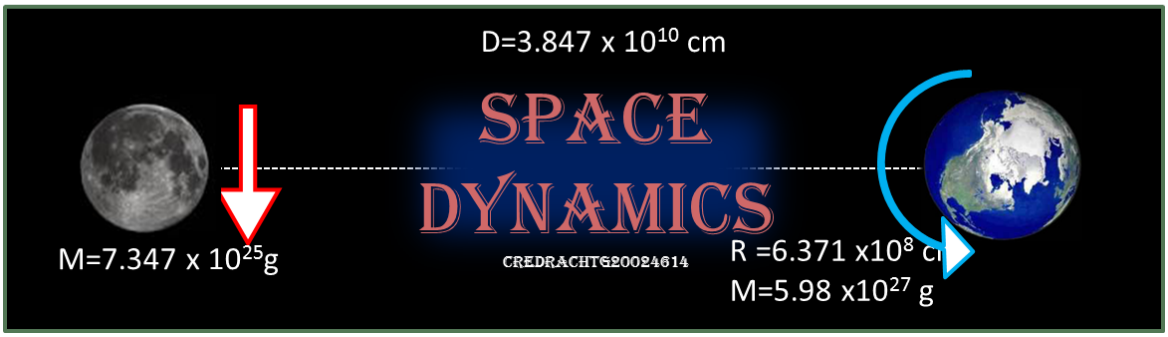

FIGURE-03

Gravity Momentum of Moon about Earth=[Moment of inertia] x [Angular velocity]
$GM_{M(E)}$ =[(mass of Moon)x(distance to Earth)^2] x [2π /(27.32 x 24 x 3600 seconds)]
=[(7.347 x 10^{25}g)x(3.847 x 10^{10} cm) ^{2}] x [2π /(27.32 x 24 x 3600) Ra per sec]
=**2.894 x 10^{41}**

Gravity Momentum of Earth =[Moment of inertia] x [Angular velocity]
GM_E =[(mass of Earth)x 2/3 (Radius of Earth)^2] x [2π /(24 x 3600 seconds)]
(In this calculation Earth has been considered as a hollow globe because it is the reality-pl ref 'Inverted Gravity and formation of hollow globs ' /SPACE DYNAMICS-V3/2011)

$=[(5.972 \times 10^{27} g) \times 2/3 \times (6.371 \times 10^{8} cm)^2] \times [2\pi /(24 \times 3600 sec)]$

$=\underline{\mathbf{1.174 \times 10^{41}}}$

'How close the Gravity Momentum of both in their rotary dynamics about a single center?'

6.11 Evaluation of the Analysis:-

GRAVITY MOMENTUM OF MOON> GRAVITY MOMENTUM OF EARTH

- It indicates that Earth-Moon couple is not at the exact **uniform dynamic state** due to interference of third party gravitation. (*Sun is the third party who interferes and as a proof, gravity by Sun at Moon = 0.592cm/s^2 which is bigger than gravity by Earth at Moon=0.269 cm/s^2)*

- GM of Moon > GM of Earth; expression also provides the important clue that Moon's gravity momentum is more than the need for an uniform dynamic state with Earth and as a result, Moon must be pushed in to a more outer orbit and therein it is at a gradual departure from Earth.

The readers would observe that, though the new theory deviates a bit from the reality, it tells us a story of immense importance such as;

1. Earth must have had a Gravity Momentum to tally with that of Moon in the past but now Earth is being slowed down in spinning (**Global Slowing**)
2. Decrement of spinning speed of Earth must be due to either drop of Geo Magnetic field strength or
3. Decrement of spinning speed of Earth must be due to improved resistance for spinning by high raised buildings being constructed all over the globe. *(space medium is resistive against motion-pl ref 'Dynamic Stability in Orbital Motion'/Space Dynamics-V6/2013)*

6.12 Forecast of a sad news:

Moon is at a gradual departure by leaving Earth, to be promoted prospectively as a planet in the Solar System *(pl ref 'Origin of Moon by the Earth Bang'/SPACE DYNAMICS-V3/2010)*

If it really to take place some day or other what could be the orbit of Moon thereafter about Sun?

The new orbit of Moon about Sun must depend upon the velocity of moon, at the instant of leaving.

Most probably it should leave in a blue moon day noon when velocity of Moon about Sun is of the lowest level. Then it should drop towards Sun while orbiting till it possesses a velocity increment for independent orbiting round Sun more closely than Earth.

It is very important to consider radial force distribution of Moon at that instant by following the rules of Newtonian Gravity.

6.13 Force Distribution Analysis on Moon Departure:

This is quite of Newtonian Mechanics

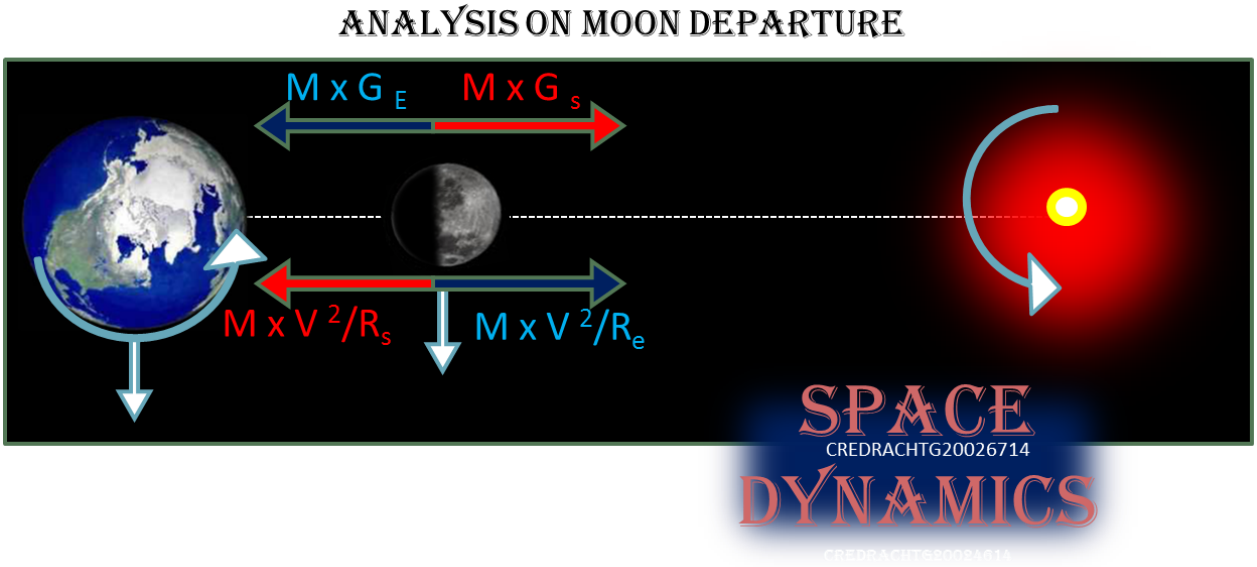

FIGURE-04

Assumptions:

It is assumed under circumstances that, departure of Moon could take place on mid noon of some unfortunate blue Moon day.

Data:

Mass of Moon $=7.347 \times 10^{25}$g
Solar Gravity at Moon $= 0.592$ cm/s^2
Earth's Gravity at Moon $=0.269$ cm/s^2
Distance to Sun, R_s $= 1.494 \times 10^{13}$ cm
Distance to Earth, R_e $= 3.847 \times 10^{10}$ cm
velocity of Earth w.r.t. Sun $= 2.98 \times 10^6$ cm/s
Velocity of Moon w.r.t. Earth $= 1.017 \times 10^5$cm/s

Deductions:

Mean angular velocity of moon w.r.t. Sun=angular velo of Earth wrt Sun=7.272 $x10^{-5}$ radians/s.

Angular velocity of Earth w.r.t. Sun could not be changed at any instant but that of Moon changes due to orbital motive force conveyed by Earth. At full moon it is of highest and at blue moon it is at the lowest.

Relative velocity of Moon w.r.t. Earth at Blue Moon =(Real velocity of moon)-(real velocity of Earth) =-1.017 $x10^5$cm/s

Therefore real velocity of Moon w.r.t. Sun =(real velocity of Earth) -1.017 $x10^5$cm/s

=(2.98 x 10^6 cm/s)- 1.017 $x10^5$cm/s

=**2.878 x 10^6 cm/s**

Stability Analysis on blue moon day noon:

Let us take mass of moon as M,

Total force towards Earth = gravitational drag by Earth + centrifugal force about Sun

= MxGe + M (2.878 $x10^6$cm/s)^2 /(1.494 $x10^{13}$ cm)

=M [0.269 + 0.554]

= M[0.823]dynes

Total force towards Sun =gravitational drag by Sun + centrifugal force about Earth

=MxGs + M (1.017 $x10^5$cm/s)^2 /(3.847 $x10^{10}$ cm)

= M[0.592 +0.268]

= M[0.860]dynes

Conclusion:

Force on blue Moon towards Earth < force on blue Moon towards Sun

According to that analysis, by the mid noon of one unfortunate Blue Moon day, our Moon should start departing because the resultant drag towards Sun is a bit greater than that towards Earth.

But Moon is still there in the sky and what could have gone wrong with your theory?

Theories differ from the reality moreover where our assumptions don't fit to the reality. Haven't we assumed that Earth is a **solid sphere** where, effective center of gravity lies exactly at the geometric center? But in reality, **Earth is a Hollow Globe** where, the Effective Center of Gravity is shifted a bit towards the solid crust in the side with respect to any concerned secondary body mass. (pl refer 'Inverted Gravity and formation of Hollow Globes'/Space Dynamics-V3/2011).

And as a result the gravitational drag by a hollow globe is a bit higher than that of a solid globe upon any secondary object at closer distances.

6.14 Let us observe the mathematical proof for the '**Effect of Gravity Shifting by Hollow Globes'**.

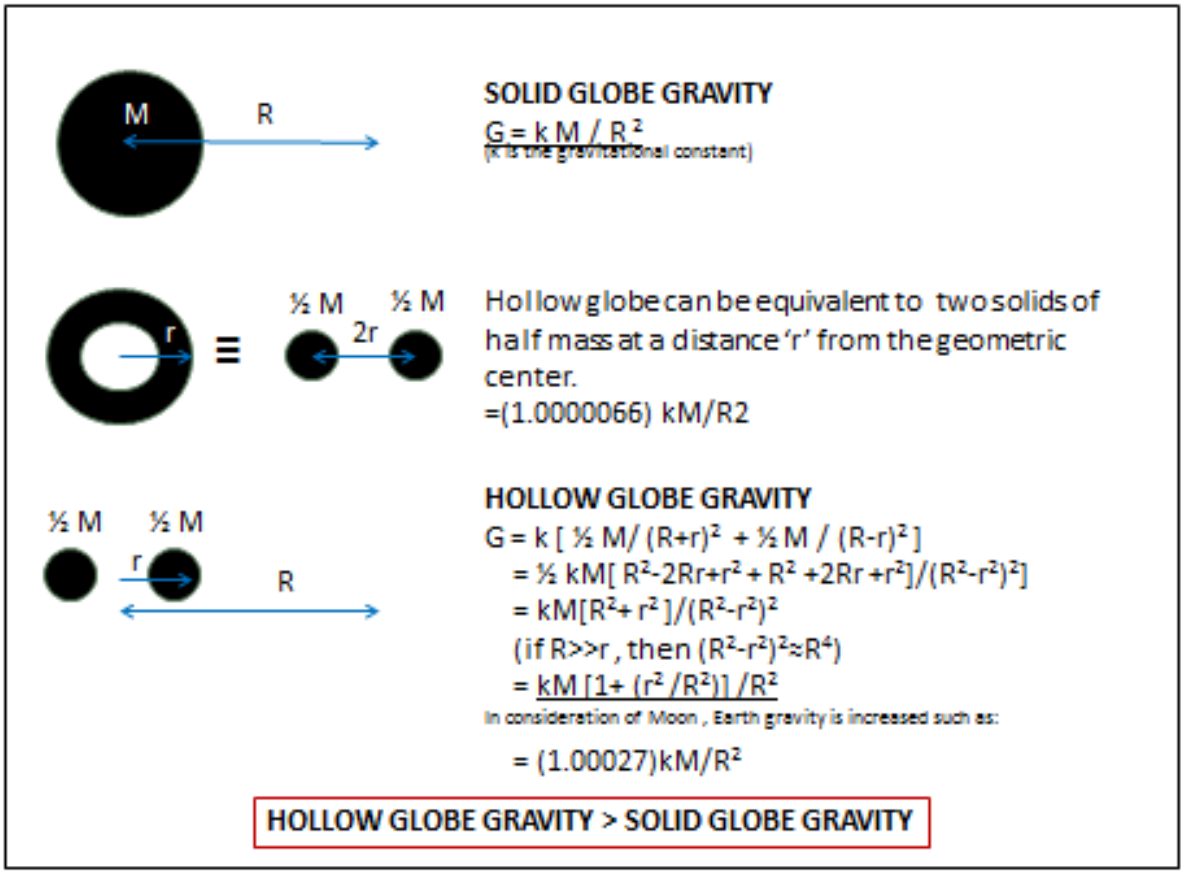

FIGURE-05

In consideration of the above analysis, Earth applies a little bit bigger gravitational drag due to its hollowness in the body shape. With consideration of that effect too, the total drag towards earth is improved only by **1.00027** times and obviously it doesn't support to keep the Moon from departing.

But how could then Moon orbit Earth as yet with no sign of a departure in against of all your theories?

This slight deference of dragging forces cannot move a moon all at once in your presence because it possesses complicated angular momentum not only around Earth but also around Sun.

But however this unbalanced force distribution cannot so simply be neglected because it can work very slowly by increment of distance from Earth gradually till the final day of the unfortunate departure.
Has not Moon already started moving away from Earth to indicate launching of the 1st step of it's mission of the prospective great Departure?

However we have gone far enough away from the scope of this technical paper and let's come back to the 'Theory of Gravity Momentum' again.

Let us then consider the distant isolated gravitational system, Pluto-Charon couple

As it appears, this couple is orbiting so afar from Sun and other worlds in the space and they must be enjoying freedom of mutual gravitation without any interference by a third party.

6.2 Pluto-Charon Gravitational System (Case Study-2)

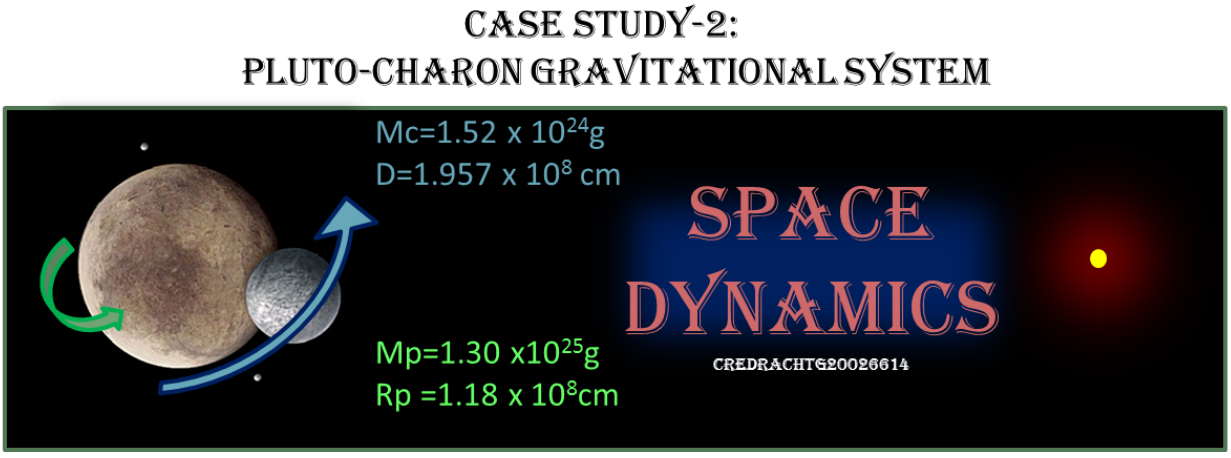

FIGURE-06

Gravity Momentum of Charon about Pluto =[Moment of inertia] x [Angular velocity]

$GM_{C(P)}$ =[(mass of Charon)x(distance to Pluto)^2] x [2π /(6.4 x 24 x 3600 seconds)]
=[(1.52 x 10^{24}g)x (1.957 x 10^8 cm) ^{2}] x [2π /(6.4 x 24 x 3600) Ra per sec]
=6.614 x 10^{35}

Gravity Momentum of Pluto =[Moment of Inertia] x [Angular velocity]

GM_P =[(mass of Pluto)x2/5(Radius of Pluto)^2] x [2π /(6.4 x 24 x 3600 seconds)]

=[(1.30 x10^{25}g)x2/5(1.18 x 10^{8}cm)^2][2π/6.4x24x3600 rad/sec]

=<u>8.224 x10</u>^{35}

*(In this calculation Pluto has been considered as a solid globe because it is not a **productive planet** in the solar system and also it could not possess a considerable magnetic field. It doesn't spin by means of a geo magnetic motor but it is just rotated by gravity deviation of its orbiting moon Charon. This phenomenon is known as the **Tidal Lock**).*

'How close the Gravity Momentum of both in their rotary dynamics about a single center?' that is how when a two party gravitational rotary system is not interfered by a third party.

6.21 Evaluation of the Analysis:-

GRAVITY MOMENTUM OF PLUTO >≈ GRAVITY MOMENTUM OF CHARON

- This little unbalance indicates that Charon is getting more and more close to Pluto very slowly and gradually.
- Pluto is inactive as a spinner to keep Charon at a fixed radius in orbiting and therefore she is approaching gradually to contact.
- There is no **geo magnetic motor** in Pluto to give energy to keep on their rotary motion against **space resistance** and rotary dynamics should gradually be held up.
- Finally Charon should contact Pluto with no collide at all because both are **tidally locked.**
- This incident is going to be the one and only exemplary case in the Solar system to exhibit gravity contact of two bodies with no accident at all.

By then one of the readers may ask "Doesn't Pluto spin as same as Earth or any other planet in the solar system?"

"No. Pluto is not a spinner but just rotated by gravity deviation of Charon."

"Gravity Momentum of both Pluto and Charon are almost same as per your derivation. Then why should not this isolated system at '**Uniform Dynamic State'**, sustain as it is forever? "

"There is no energy generation in Pluto (without having a geo magnetic motor) and then who is to pay for energy requirement for the couple to maintain their dynamic state?

Why do they need energy when they are at uniform dynamic state?

Because of **space resistance**; Motion in the space consumes energy due to friction applied by the space medium.

6.3 Gravitational System of Mars and Moons (Case Study-3)

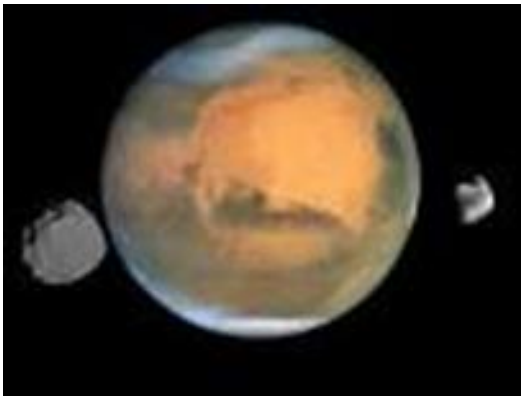

FIGURE-07

Mars is already known as the **lost world** in the solar system. It possesses almost **no magnetic field** at present **but spinning** violating all the theories of 'Geo Magnetic Motor' in planetary rotary dynamics.

Let's see, what's the state of its rotary dynamics having two moons Phobos and Deimos of irregular shapes.

Gravity Momentum of Mars =[Moment of Inertia] x [Angular velocity]

GM_M = $[(6.398 \times 10^{26}g) \times 2/5(3.376 \times 10^8\ cm)^2] \times [2\pi/24.6 \times 3600) ra/s]$

= $\underline{2.069 \times 10^{39}}$

Gravity Momentums of Phobos= [Moment of Inertia] x [Angular velocity]

$GM_{P(M)}$ =$[(1.065 \times 10^{19}g)(9.79 \times 10^8 cm)^2] \times [2\pi/8 \times 3600\ ra/s]$

=$\underline{2.226 \times 10^{33}}$

Gravity Momentum of Deimos =[Moment of Inertia] x [Angular velocity]

$GM_{D(M)}$ =$[(1.47 \times 10^{18}g)(2.34 \times 10^9 cm)^2] \times [2\pi/30.3 \times 3600 ra/s]$

=4.636×10^{32}

Therefore total Gravity Momentum of moons of about Mars= **$\underline{2.689 \times 10^{33}}$ snap shot**

'What a big difference between figures and Why should not we reject the theory then?

6.31 Evaluation of the Analysis:-

GRAVITY MOMENTUM OF MARS >>>COLLECTIVE GRAVITY MOMENTUM OF MOONS

$\underline{2.069 \times 10^{39} >>> 2.689 \times 10^{33}}$

- The Mars system badly deviates the theory of Gravity Momentum and it is far away from the '**Uniform Dynamic State'** in rotary dynamics.
- This is quite different of a case in the solar system and no any other gravitational system to exhibit such a big deviation from the theory.

- Today's snap shot of Mars exhibits a transition from a **huge instability** towards prospective stability.
- The two moons must probably be approaching to hit upon the planet according to the theory of Gravity Momentum. But before concluding that, let us see what is big? Solar gravity or Mars gravity at the moons.

Solar gravity at Phobos and Deimos
$=(6.668x10^{-8})x (1.991 x 10^{33}g)/(1.523 x 1.497 x 10^{13}cm)^2$
$=$**0.25 cm/s^2**
Mars Gravity at Phobos $=(6.668x10^{-8})x (6.398 x 10^{26}g)/(9.79 x10^{8}cm)2$
$=$**44.51 cm/s^2**
Mars Gravity at Deimos$=(6.668x10^{-8})x (6.398 x 10^{26}g)/(2.34 x10^{9}cm)2$
$=$ **7.79 cm/s^2**

Therefore Solar gravity influence upon both moons Phobos and Deimos is remarkably lesser than Mars gravity and hence it can be deduced certainly that both moons cannot leave the planet at all. And hence they must definitely hit upon the planet some day or other in future. As an indicator, Phobos has already overtaken Mars in rotary dynamics and it rises from the west and setting in the East.

6.32 Future Forecasting:

Then what could be the future of Mars?

Most probably Phobos must hit upon the planet and due to the huge bulk of added energy, the geo magnetic motor of Mars perhaps could be reactivated. Unless, otherwise the spinning of Mars should come to a stop gradually due to 'Space Resistance'. (*This will take a long time duration and it too, can be calculated mathematically).*

6.33 Surmising of the Past of Mars:

Mars should have undergone a serious explosion (probably an internal explosion of large scale) in the past. Gravity momentum of Mars depends on its speed in rotation and the high magnitude of it which is a million times greater than that of the moons gives the clear indication that Mars have had a geo magnetic motor in the past which accounts for its high spinning speed.

Mars seems to have lost its atmosphere and the magnetic field at the same time of the accident which could have taken place probably at a late magnetic reversal. The two

moons of irregular shapes should be pieces (loosened tectonic plates) of the former Mars crust which could have been projected out by the great interior explosion.

Conclusion:
The case study upon the rest of planets in our solar system is quite interesting and each tells a narrative of their past and future but the monograph is coming to a stop hereby in consideration of the limit of patience in my reader.

Summery of the monograph:

01. Sir Isaac Newton found **Gravity** by which dynamics in the world could be explained explicitly but some areas remained in dark due to missing of some essential linkage theories such as;
    i. Theory of **Gravity Deviation** when the masses are in relative motion.
    ii. Theory of **Gravity Momentum** to explain dynamic stability of gravitational systems.

02. In a two party dynamic gravitational rotary system, **Gravity Momentum** (GM) possessed by each party must be equal for stability or unless a different story of a phase transformation is revealed such as;
    i. GM of spinning mass < GM of orbiting mass (therein the orbiting mass is gradually departing from the spinning mass)
    ii. GM of spinning mass > GM of orbiting mass (therein the orbiting mass is gradually getting closer to the spinning mass)
03. Case studies by application of the new theory has told unexpected stories such as;
    i. Sad news of our **Moon Departure** which is already being commenced and reaching gradually up to a final moment of leaving on mid noon of one unfortunate blue moon day.
    ii. A theoretical clue of the history of Mars, the **Lost World**.
    iii. Theoretical forecasting of the happy future of the distant couple, Pluto Charon.

END

(Any novel idea, concept or theory introduced in this experimental technical monograph is freely exposed for the world public to test and adopt in any researches, inventions and applications on behalf of coexistence of the global ecosystem and human civilization.)

Cyril H Thalpe Gamage

11th Aug 2014

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(Special Note: I am so certain that the world will not recognize me till my death. But I shall never give up my silent exploration of the world being an inborn physicist who started the carrier of scientific exploration from the childhood (by 1975). Only one or two monographs more shall close my chapter in this world but my only worry is how much the 'Physics of the 21st century' could miss by rejecting my theories without testing)