

Research Paper: (20120705):

A Science Graduate can understand claimed discovery.

Do planets spin automatic or by a force?

Here in this research paper spin by the planets (Mercury and Venus only) has been stated because they show magnifying effects on being closer to the Sun, whereas discovery claim is for all the celestial bodies which spin.

PART-1: Flash Information

With Objective Type Questionnaire (OTQ-1) to answer some queries over the said phenomenon.

Mercury and Venus reveal truth about spinning of the planets:

That planet does not spin by the conservation of angular momentum OR in simple words that planet does not spin **automatic** by the momentum which it had/has got millions years ago at its formation by the contraction of the matter from which it has been formed. This is what the Scientists (World) still understand by their mind-set from 17th century (from 400 years); though they (Scientists) have gathered much information to have proof themselves that their 400 years old speculation (Theory) over the spin by the planets is wrong and false. The said work which they (Science Community) should have done, that work has now been done by the Discoverer (Challenger).

Said discovery is in fact by you (Science Community) and not by the Challenger: Discoverer has never peeped through a telescope but **the Computed result** got by the Discoverer is from your's (Scientists') own accumulated thousands of new discoveries/findings over a span of 400 years by your own framed scientific laws of the subject Physics, which have proved your own 400 years old speculation (theory) over **'Do planets spin automatic or by a force?'** as wrong and false. Discovery that what is correct over the said subject is in fact not by the Challenger but it is by the Science Community. Since the release of discovery claim (April 7, 2007); Concerned scientists are unable to understand even a very simple law of Physics due to the **mind-set from centuries**.

Note: For easy understanding of the discovered facts; forget all other planets except planets (Mercury and Venus). Said planets face high gravity pull from the Sun on being closer to it thus show magnifying effects over the resistance caused in process to spin by the densest elements among the mixture of different densities elements of the huge molten cores by the reason as explained ahead and as shown over the sketch below.

Illustration of the affect **'by the self gravity of the planet'** over its own matter (solid, liquid/fluid/molten-mass and gases) and **'by the gravity of the nearby planet/satellite/Sun'** has also been stated as per attached **Additional Information**. Here, under **Flash Information**; keep in mind that Earth can not lift by its gravity a free particle from the surface of the Moon but tiny Moon by its 1/6th gravity pulls trillions and trillions of tons ocean water resulting to distort spherical shape formed by the self gravity of the mighty Earth. By keeping the said fact in mind, visualize that what gravity of the mammoth Sun can do with the fluid (molten core) of the tiny Mercury?

Kind Attention!
Astronomers, Astrophysicists, Physicists and Science Concerneds:

Dear Concerned:

Please give answers to some objective type queries over attached **Objective Type Questionnaire (OTQ-1)** only after going through this **Research Paper: Do planets spin automatic or by a force** in 'Yes' or 'No'. Your answers in 'Yes' or 'No' would give answer to the following query:

Query: How the said planets are spinning automatic due to the conservation of angular momentum which they had got millions of years ago(at their formation) **WHILE** facing the **discovered great resistance factor** formed by the matter of the molten core in process of spin by the planets?

Planets Mercury and Venus spin very slowly as compared to other planets and Venus spins in the opposite direction.

"When a natural object defy our understood Nature's Science laws OR goes/functions in an exceptional way than the other objects of the same/similar kind; it provides vital clue about the laws of Nature and puts a question mark at our pre-understanding about the Nature and its laws".

Discovery claim explanation:

Before any scientific explanation over the spin by planets Mercury and Venus; a scientific practical laboratory explanation is a must, result of which a **school going student** can also understand.

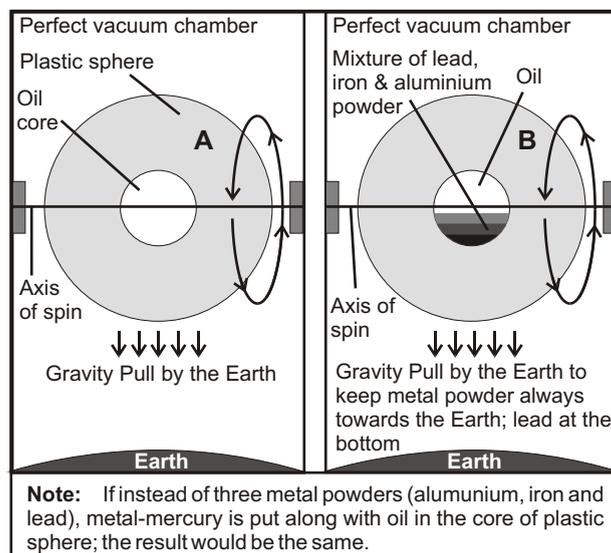
Practical explanation and comparison of the result by practical spinning device with the actual performance of spin of the planet (Mercury or Venus) because of its molten core to prove that planets do not spin by the conservation of angular momentum. Practical experiment lacks self-gravity effect and centrifugal effect over the matter (shell and core) of the sphere but explanation ahead would support result of the practical.

Practical Explanation (visualized experiment):

Presume two perfect spheres (A) and (B) of transparent plastic of diameter (say three feet) having core fully filled with oil of diameter (say one foot) in a perfect vacuum chamber. Core of oil of sphere (B) should have some quantity of different densities metal powder (say mixture of lead, iron and aluminium). Both plastic spheres to have separate horizontal axis, which can give rotation to the spheres independently over frictionless bearings.

Give rotation to both the spheres for some minutes with the same power and leave them to rotate. Sphere (A) would keep on

spinning because it has no friction from its axis, surrounding medium and also from its oil core. But sphere (B) can not spin for long by the spin Momentum given to it because densest metal powder (lead) would always be towards the Earth by the Earth's gravity and would keep on creating friction with the less dense metal powder and also with the oil besides friction with inner surface of the plastic sphere with the result sphere (B) would come to halt after some rotations.



Discovered: Every planet faces one or another resistance in process to spin, thus it can not spin automatic for long period (by the conservation of angular momentum as the World understands) unless it gets continuous force (F) to spin. A major resistance factor by the matter of the molten core of the planets (Mercury and Venus) has proved easily the said discovery claim and the same has been illustrated in this research paper. What is that force (F); where from the planet gets it (force) and how it (force) works that all has been discovered.

World blindly understands from centuries by the old speculation that planet spins by the spin/angular momentum which it has got million/billion years ago when it was formed from a spinning cloud of matter. Now no additional force is spinning it; it is spinning automatic. Challenger has proved said speculation as wrong and false and claimed that planets require continuous force (F) to spin because of some **discovered great resistance factors** in process to spin. Planets close to the Sun/star are the best to understand said discovered resistance factors,

Though every planet faces resistance but Mercury and Venus both (on being closer to the Sun) prove resistance factor easily and effectively by giving noticeable magnifying effects over it (which no other planet gives) that a planet could not keep its spin continue by the spin/angular momentum unless it gets continuous force (F) to spin to overcome specific noticeable great resistance caused by some resistance factors over the spin by the planets (Mercury and Venus) as stated over attached **Additional Information**. But here in this Research Paper under **Flash Information** only one major resistance factor has been considered to make the illustration short and also easily understandable.

Claimed discovery in fact is the 'Discovery by the Science Community'

The claimer of the Discovery has just computed the results/findings of various discoveries done by you over the different objects/phenomena. He has never peeped through the telescope nor used the computer to compute the data/informations to get the computed-result.

Discovery is the outcome of the computed facts, which have been provided by you. Discoverer has kept on recording discovered facts over the papers and also retained memory in his mind from very early age extending to a span of more than 50 years.

Every one among you (The Scientists/Experts) in the World was/is lost in his/her own research study; thus no one had/have time/thought to compute the work done by the others. (Super computer does not compute data at its own, unless data information is fed into its memory) before it computes.



Scientific explanation of spin/rotation by the Mercury and Venus:

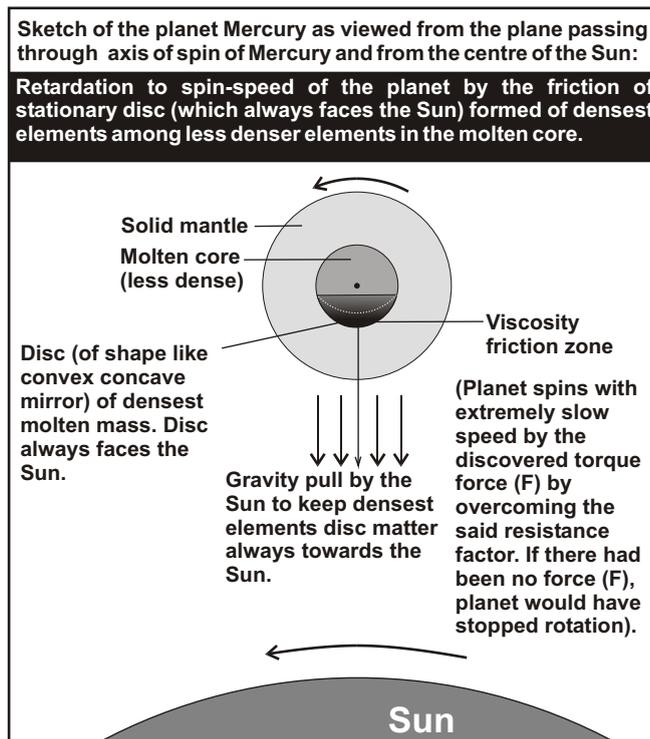
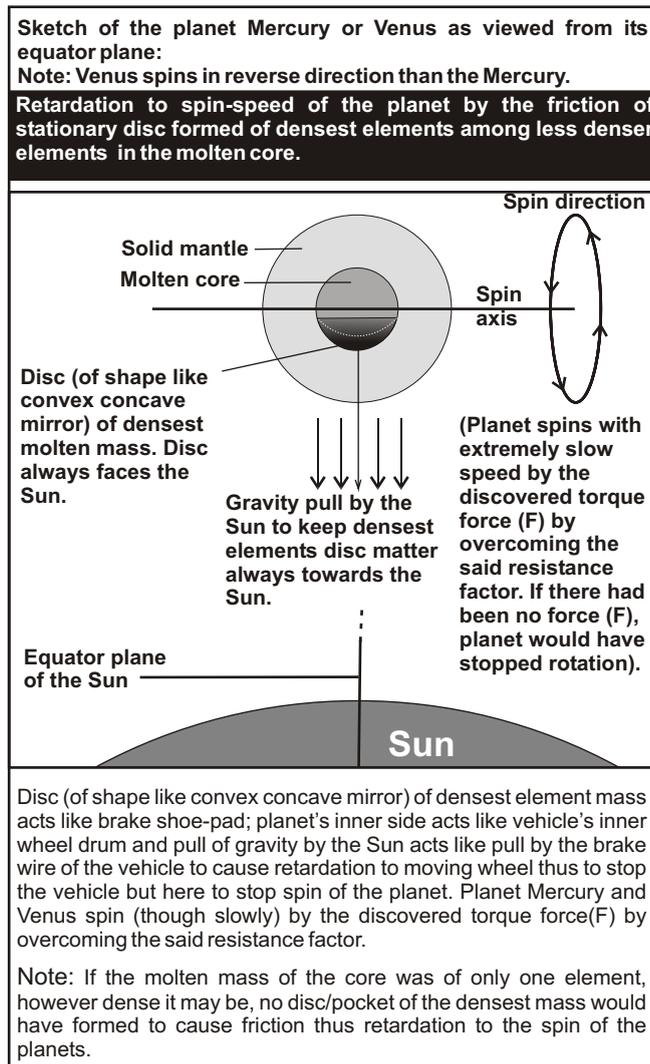
Mercury, Venus and Earth complete one rotation around their axis in 59 earth-days, 243 earth-days and 1 day respectively; Mercury spins slowly whereas Venus spins very slowly.

Molten cores of Mercury and Venus are not small but huge. Mercury and Venus on being nearer to the Sun, temperature of their molten cores is high as compared to cores of the Earth and Mars. High temperature makes the molten-core matter less viscous. Molten cores are not composed of any one kind of element but molten cores have been formed by the mixture of different elements. Each different kind of element has different density thus molten cores of Mercury and Venus are the mixture of different density elements.

Both the planets are near to the Sun, so they face high gravity pull. High gravity pull of the Sun pulls densest elements among the less dense (in molten core medium) towards it, like as shown in the practical experiment: Pull of lead powder (in core of oil medium) towards the Earth. Spin/rotation speed of both the planets is slow, so densest elements among the less dense by forming a disc and also by facing always towards the Sun would cause friction (retardation) thus would not allow the planets to spin by the pre-momentum for long period (millions of years, rather not for even for a hundred years).

The said resistance factor by the densest elements among the less dense in the molten core is the proof that planets (Mercury and Venus) do not spin automatic (by the conservation of angular momentum) but they spin by a torque force (F) which overcomes the said resistance to give rotation, though slowly.

Sketch has been exhibited below showing mechanical function of spin by the planets Mercury and Venus based over very simple Physics laws, which a matriculate can understand:



Shortcoming in the sketch shown above:

Molten core of the planet (Mercury or Venus) has been shown over the sketch above with boundary, whereas molten-core has no boundary inside with the solid upper shell (mantle); its central core is extreme hot thus has lowest viscosity fluid. Next comes the hot-zone shell followed by the semi-hot zone shell, thus has normal viscous molten zone shell. Next is semi-molten zone called high viscosity zone shell touching the semi-solid zone shell and then is the solid zone shell (mantle).

Further, molten-core of the planet (Mercury or Venus) has been shown over the sketch as a sphere; in fact it is not a perfect sphere. Molten core of the said planets are with variable viscosities as said above from very low at the centre to the highest viscosity at the boundary of solid shell (mantle). This variable viscosity factor by the extreme gravity of the Sun transforms the shape of **extreme hot and dense central zone** of the molten-core to a shape similar to an egg. The central-zone of the molten core retains the shape of an egg by keep on pointing tip towards the Sun while the planet spun, though slowly. This said factor causes additional resistance like 'tidal friction' in the process to spin by the said planets in addition to resistance by densest elements, which have formed disc by pulling densest elements towards the Sun. (Illustrated information over tidal friction by the molten core is over the attached '**Additional Information**').

Conclusion:

Slow spin-speed of the Mercury and Venus is because of continuous retardation to their spin-speeds given by the discovered friction (viscosity-friction) caused by the disc formed of densest molten mass/elements in the molten core among less dense mass. Hence, planets Mercury and Venus do not spin by the conservation of angular momentum but planets spin by a continuous torque force (F), which spins the planets by overcoming the discovered resistance factors. Planets Mercury and Venus result to prove that no planet (any celestial-body) can spin automatic or by the said World's speculation. World (Experts) must understand that when planetary laws were formed centuries ago, no one had imagined that any planet has molten core and the question to take account of any affect over the spin by it does not arise. There is a need of the hour to review and to re-frame the laws as per the present World's knowledge.

What is the force (F), which spins the planets (celestial bodies)?

It is the magnitude of the force (F) and magnitude of the resistance factors; which determine the spin-speed of a planet (celestial body). But to give answers to the objective type queries over spin by the planets (Mercury and Venus), there is no need to know the force (F).

Discover's past five years experience from the day of World challenge (July, 2007) suggests him (The Discoverer) that to keep the Concerneds confined and to get the answers from the Concerneds of specific queries over the '**Spin by the planets**,' nothing should be stated about the force (F), which spins the celestial bodies till the concerned first gives answers to the said specific queries. Reason of it is that illustration of force (F) starts from the root level and runs into several pages thus it is not possible here to state. However, the force (F), which spins the celestial bodies or the planets (Mercury and Venus), has been stated and illustrated over the relevant chapter under title: MATERIALISTIC UNIVERSE over website: www.newtonugeam.com.

What mechanism and force spin the Venus in the reverse direction?

This research paper is over the spin by the planets (Mercury and Venus), illustration of said phenomenon (reverse-spin) also is not required here to give the answer/explanation by the Discoverer because explanation in short is not possible. However; discovery claim over the said phenomenon is over the Internet under title: MATERIALISTIC UNIVERSE.

Action required:

After going through PART-1 (Flash Information) of the discovery claim over spin by the planets (Mercury and Venus) please reply (give answers) to some objective type queries as stated ahead by marking as over or after the last page of PART-1: **Flash Information** and return the same duly signed.

No comments please because High Academic Qualification or High Post by the Science-Concerned gives him/her immense/supreme power (**liberty**) to comment in any way over discovery claim. He/She can give comment the way he/she likes by reading or even without reading. (There are unlimited number of modes of reading; reading like reading a newspaper, snap-reading, scan-reading, reading while doing routine work, reading in isolation peacefully (or otherwise) but the correct way of reading is reading in isolation peacefully to understand that what is correct with true scientific approach mind). Answer to an objective type query in 'Correct/Yes' or 'Wrong/No' leaves the Concerned with no option/opportunity to skip from the targeted fact/reply and slashes influence-power (which every common person understands as the judgment) of the Science-Concerned having high academic-qualification or occupying high/highest-post thus making him/her at par in real knowledge with the other General-Concerneds to come out only with the real talented knowledge irrespective of his/her academic qualification or high/highest-post.

From the comments given; no one can judge that how a reader has read and what real knowledge (not academic qualification) he/she has over the challenged subject. To overcome this snag **of liberty to give comment**, Discoverer has specifically prepared objective type queries over the Objective Type Questionnaire (OTQ-1) as attached to answer queries in Yes or No only, so that no one (Science-Concerned) should go out of the purview of discovered facts/claims to mislead the discovery claim and must answer (Yes or No) only after giving a **through** thought.

Because of the said fact; please reply only with the marking as at Yes or No to the objective type queries. So, no comments unless comments are accompanied by the answers as correct or wrong.

Request:

Whatever you (The Science-Concerned) are reading/ studying over the challenged subjects that all is the work (hand/brain work) of millions of the Experts/Scientists/Concerneds from the thousands of years besides work by the computers/super-computers.

But what you are now reading under the challenge by the Discoverer that is the work (till to date) only of the three persons (The Discoverer; The Editor/Confirmer of the facts and the computer operator who types the hand written notes). So, if any typographical error, please inform to rectify.

World Challenged (July, 2007)

Challenge to the World is not confined only over the stated discovery over **Spin by the planets** but the World has been challenged for wrong knowledge over some basics of Astronomy and also over the basics of States of the matter and Light/Rays (Rays of any kind). Discovery has solved most riddles and queries, which pertain to the said subjects. Discovery challenge is to the basics, so the said challenged subjects require re-write.

Discovery Patent: Patent Application No. "2863/DEL/2010" by "Ramesh Chander Varma (INDIA)". Title: "Materialistic Universe and working mechanism of celestial-bodies based over materialistic-rays.

**Discovery claim: (World challenged 2007)
from: Ramesh Varma
#852, Sector-8
Panchkula (Haryana)
INDIA**

**E-mail: ramesh_varma@newtonugeam.com
Website: www.newtonugeam.com**

● **Discovery facts have been read, understood, confirmed and edited by Deepak Varma.**

Attached:

- **Objective Type Questionnaire (OTQ-1)**
- **Additional Information.**

Objective Type Questionnaire (OTQ-1):

over spin by the planets:

Planets Mercury and Venus on being closer the Sun show magnifying affects over the cause of spin as stated over the Research Paper thus have proved easily that what the World knows about spin by the planets that all is wrong and false.

After going through the information given under PART-1 **Flash Information: 'Do planets spin automatic or by a force'**; please give answers in 'Yes' or 'No' to some queries as stated below to come at the conclusion that what is correct; what the World knows or what the Discoverer has claimed (Both the planets 'Mercury and Venus' are under similar conditions as per the explanation given but because answers required to the queries are only in 'Yes' or 'No' thus questionnaire is over only one planet 'Mercury').

To have link of involved/responsible factors over the said phenomenon; below stated queries are from root level to discovery claim. (PhDs or higher Academic Concerneds! Please note that every contrary discovery has to be studied from the root level).

Mark over Yes or No ; which you consider as correct.

1. Is the below said fact correct? Yes No ← (If no, please sign here)

Planet Mercury is very near to the Sun.
(Information got from books/Internet).

If your answer is no; give reason(s)/explanation and please leave the next queries unanswered.

2. Is the below said fact (data) correct? Yes No ← (If no, please sign here)

Planets Mercury and Venus spin/rotate about its axis of spin slowly and very slowly respectively. Mercury completes one spin/rotation in $59 \times 24 = 1416$ hours (approximate); Venus completes one spin/rotation in $243 \times 24 = 5832$ hours, (approximate), whereas our Earth completes one spin/rotation in 24 hours. (Information taken from books/Internet).

If your answer is no; give reason(s)/explanation and please leave the next queries unanswered.

3. Is the below said fact correct? Yes No ← (If no, please sign here)

Planet Mercury has huge molten core.
(Information got from books/Internet).

If your answer is no; give reason(s)/explanation and please leave the next queries unanswered.

4. Is the below said fact correct? Yes No ← (If no, please sign here)

Molten core of the Planet Mercury does not have any one kind of element but have mixture of matter having different kinds of elements thus of different densities.
(A common sense fact).

If your answer is no; give reason(s)/illustration that why core matter would have all elements of the same densities? And please leave the next queries unanswered.

5. Is the below said fact correct? Yes No ← (If no, please sign here)

High gravity pull (on being nearer to the Sun) over the molten core matter of the planet Mercury keeps the densest elements (from the mixture of matter of different densities) always towards the Sun, while the planet Mercury spins/rotates slowly.
(Discovered fact).

If your answer is no; give reason(s)/explanation that why the said fact is not true? And please leave the next queries unanswered.

6. Is the below said fact correct? Yes No ← (If no, please sign here)

Densest elements (among the mixture of different densities elements) always face the Sun, while the planet Mercury spins. Said stationary mode of the densest elements among less dense elements causes viscosity friction (in process to spin) with the inner shell and also with remaining molten mass of the core of the planet Mercury.
(Discovered fact)

If your answer is no; give reason(s)/explanation that why the **stationary** densest elements of the molten core of the Mercury does not cause viscosity friction with the inner shell of the **slow spinning** planet Mercury and with the molten mass of the core? If your answer is no, please leave the next queries unanswered.

7. Is the below said resistance fact (of any magnitude) to spin-speed correct? Yes No

No ← (If no, please sign here)

Friction (Viscosity-friction) caused by the pocket/disc of stationary densest elements of the molten core in process to spin by the planet Mercury with the inner shell of the planet Mercury and with the molten mass of the core is great. (If magnitude of friction is not great; it is also not absolute zero). In other words; densest elements of the molten core matter causes friction with some magnitude thus spin-speed of the planet Mercury gets some retardation.
(Discovered fact)

If your answer is no; give reason(s)/explanation that why the said friction (viscosity friction) would not cause any retardation to spin-speed (or would not affect spin-speed) of the planet Mercury?
If your answer is no, please leave the next query unanswered.



8. Is the below said conclusion fact (discovery claim) correct? Yes No

No ← (If no, please sign here)

If a presumed replica planet of the dimensions and location similar to Mercury is given spin momentum once with spin-speed, like Mercury has presently and then left to spin automatically; the planet by facing the said friction (retardation) in its process to spin can not complete one thousand rotations/spins (to leave no doubt, say ten thousand rotations/spins).
In case your answer is 'Yes' it proves that the knowledge with the World is wrong and false that planets spin by the conservation of angular momentum.

If your answer is 'No'; please explain that how slow spinning planet Mercury, which completes one rotation in 1416hours against one rotation/spin by the Earth in 24 hours) have kept its spin alive for million years and further in future how it would keep its spin continue for the next million years with such slow spin-speed by facing the said (accepted by you) resistance to its spin without getting any internal or external spin/torque force (except the spin momentum which it had got million years ago at its formation on contraction of the cloud of matter from which it has been formed)?



Moral: Your answer to above said queries would lead the World to know that what is correct (what the World or you know or what has been discovered and claimed by Discover is correct). So, in Public and Science Community/Students interest please answer the above said queries and reply at the earliest.

Request: If your answer to query No. 8 is 'Yes', please sign over the below stated fact:
I have read 'Research Paper (20120705): Do planets spin automatic or by a force?' Thus I came to the conclusion that planets do not spin by the conservation of angular momentum; planets must be spinning by the some continuous force by overcoming the resistance factor(s). World's knowledge over spin by the planets (celestial-bodies) requires review/re-understanding.

Name:

E-mail:

Address:

..... ← (Please sign here)
..... ← (Date)

Thank you in anticipation for giving the reply with answers to the stated queries.



Note: Discovery over the subjects; Astronomy and Physics is not only over said one phenomenon i.e., spin by the planets but discovery claims by the Challenger are over numbers of phenomena and facts, which took the World back to square No.1 from where World took first wrong step; resulting to rewrite the subject Astronomy and some chapters of Physics over 'States of the matter' and 'Rays' as stated over the website under title: MATERIALISTIC UNIVERSE.

Discovery claim (World challenged 2007) from:
Ramesh Varma, #852, Sector-8, Panchkula (Haryana) INDIA

E-mail: ramesh_varma@newtonugeam.com
Website: www.newtonugeam.com

Attached: PART-2 (Pages- 7 to13)

Additional Information of Research Paper (20120705)

**Over spin by the planets
(Do planets spin automatic or by a force?)**

PART-2 Additional Information of Research Paper (20120714); (Pages 7 to 13).

Over spin by the planets (Mercury and Venus only)

Note: Flash Information already given to prove that planets do not spin by the conservation of angular momentum (automatic) is sufficient; **Additional Information** given over here would be helpful to reconsider understandings over the basics of Astronomy; states of the matter and Rays besides further proving with more information that planets do not spin by the conservation of angular momentum (automatic) but require a continuous force (F) to overcome resistance faced by the planets in process to spin/rotate.

Information given under **Additional Information** is particularly over:

- (i) Self gravity and affect over the matter of another body by the gravity of any nearby big body like, causing ocean tides.
- (ii) Some factors other than as stated under the Flash Information, which cause resistance in process to spin/rotate by the planets.

Prime aim: Prime aim of the Discoverer/Challenger here in this research paper is to prove that planet can not spin by the conservation of angular momentum (automatic) alone for long period due to some resistance factors; for its spin, it requires continuous spin (torque) force (F). What generates the force (F) and what is that force (F) that all has been illustrated under discovery claim titled: **MATERIALISTIC UNIVERSE** in chapter No. 1 (STATES OF THE MATTER) and also in other relevant chapters.

What the World understands about spin by the planets?

Below stated/exhibited information has been taken from the Internet and reputed newspapers, which is for the General Science-Concerneds (**Not for the Scientists/Experts**).

FROM A BOOK OVER ASTRONOMY OF WORLD REPUTE

The formation of the solar system

The present-day layout of the solar system offers a number of clues as to how the sun and its family came into being. From observational evidence gleaned by astronomers we have pieced together a theory as to the formation of the solar system that we believe to be correct, at least in general terms.

The solar system formed from a rotating cloud comprising gas and particles of dust and ice. This cloud is referred to as the solar nebula. Though the effect of gravity, the material in the solar nebula congregated towards the central region, resulting in an increase in density, temperature and pressure and the formation of a 'protostar'.

At the same time, the rotation of the irregular cloud caused it to flatten out into a disc. It was from the central region of this disc that the Sun was formed, the outer parts eventually forming the planets. This theory ties in quite well with observation, which shows us that the planetary orbits are more or less in the same plane.....

Spin by the planets:

FROM NEWSPAPER, 16th NOVEMBER, 2007

The spin of the earth is 1000 miles per hour and its direction is east to west. Planet Venus, similar in size and mass, rotates backwards, west to east; its day lasts 243 earth days giving a spin rotation of about 4 miles per hour. Planet Uranus rotates on its side. Its summers and winters are 21 earth-year long. Planet Jupiter, the biggest in the solar system, spins fastest at the rate of 28000 miles per hour. How can one reconcile or understand these wide discrepancies?

Sticking with the basic argument given in answer to the previous question we can give the following explanation for the apparent discrepancies you have pointed out:

Different rates of spin depend on the rotation period of the original cloud from which the planets congealed. In the relatively chaotic phase of formation of the solar system no uniformity can be prescribed in this regard.

For example Jupiter must have contracted from an enormously large rotating cloud of the dust and gas. That is the reason it spins so fast.

Slow retrograde rotation of Venus probably comes from the fact that its parent cloud was rotating very slowly in that reverse direction.

Uranus must have been knocked on its side early in its history by a large body. Such collisions were not that unlikely.....

Formation of the planets: Internet, dated 28/12/2003

Five billion years ago a cloud of hot swirling dust and hydrogen gas gave birth to our Sun and planets. As the cloud spun and collapsed inwards it flattened into a central mass with a surrounding disk. Dust and gases in the disk formed small condensations each spinning about its own centre. Gravitation condensed and heated the central mass. Density increased dramatically and [nuclear] fusion began. Energy was released and our Sun flared into existence. The solar wind of the newly ignited Sun blew away leftover dust and gas in the vicinity of the inner condensations, leaving the rocky inner planets: Mercury, Venus, Earth and Mars. In the other regions of the disk, the solar wind was weaker. The remaining dust and gas condensed onto the larger gaseous planets: Jupiter, Saturn, Uranus and Neptune.

FROM NEWSPAPER, YEAR - 2003

From where does the earth receive the energy to rotate around its own axis and to orbit the sun?

The energy and momentum of the earth and other heavenly bodies primarily came from the method of their formation. If we take the generally accepted theory of formation of the solar system then these energies are derived from the original energy and momentum of the large cloud of gas and dust that gave birth to the system through gravitational contraction. In the processes of such contraction the overall angular momentum had to be conserved and enormous amount of gravitational energy was converted into kinetic energy. Once a planet like the earth is set into rotation or circulation around the sun we do not need any engine to keep it going. There are perturbations caused by the various gravitational fields it might encounter. Moving at uniform speed does not require any energy. I am neglecting the small changes that occur through tidal interaction with other heavenly bodies. (It is well known that the speed of rotation of the earth might have been reduced over billions of years because of the tidal friction of the moon).

From Internet, dated 13/07/2012

Curious About Astronomy? Ask An Astronomers

(<http://curious.astro.cornell.edu/question.php?number=416>)

Why do planets rotate?

Why do the planets rotate? What force cause them to rotate?

There is no force that causes the planets to rotate. Most of the rotation comes about from the conservation of angular momentum. Angular momentum is given by $L = m \times w \times r^2$ where m is the mass, w is the angular velocity in radians per second, and r is the radius of the circular motion. Due to conservation of angular momentum, if the radius of the orbit decreases, then its angular velocity must increase (as the mass is constant).

All planetary and stellar systems are born from the collapse of dense interstellar clouds.....

Conclusion that what the World understands:

Here, particularly in this **Additional Information**; it is concluded that World understands that:

- There is no force that causes the planets to rotate/spin.
- Planets rotate by the conservation of angular momentum, which (momentum) they got millions years ago at the collapse of the cloud from which they have been formed.
- Now planets are spinning/rotating **automatic** because there is no resistance to their spin by the space or by any other factor.

Why the Astronomers (Scientists) have not understood till to date any resistance to spin?

From centuries World is under the prejudice mind-set and no one among the Concerned-Scientists have given a thought to compute some new discovered facts during a span of 400 years, which cause resistance to the planets in the process to spin.

Scientists would have easily understood that space poses resistance being materialistic after the discovery of solar-wind and radiation pressure etc but their prejudice mind-set have locked their brain to think beyond that which was published and accepted 400 years ago in Science-books, like accepting contents of Religious faith-book of 400 years old.

Proof that space is materialistic:

Whatever the Sun releases into the space in the form of solar-wind, solar radiation, rays of all kinds, particles (charged/uncharged) cosmic particles and gases etc by losing its mass 4,200,000,000 tons per second that all is **solar-ejects**.

- Scientists/Experts due to prejudice mind-set still understand that solar space is a no matter-zone. A simple stated fact is sufficient to prove their understanding as wrong. Sun loses 4,200,000,000 tons of its mass per second. Light takes 8 minutes to reach the Earth from the Sun. Said fact confirms that space of the shell up to the orbit of the Earth has been filled by materialistic-particles equivalent to 4,200,000,000x8x60 tons. In addition to said matter, solar space is also filled by the materialistic particles of our galaxy (Milky Way). Besides all this some materialistic matter of the Universe too is in the solar-zone. Solar-ejects are materialistic, thus it has the thrust/push effect over the objects/planets. There is nothing like 'Dark-matter' but it is the 'White-matter' which is occupying the space and also there is nothing like 'Dark-energy' but it is the thrust outwards by the 'White-matter' (White-energy) released by the stars, which is pushing the galaxies resulting in the expansion of the Universe. (Explanation is over the website under title: MATERIALISTIC UNIVERSE).

- Scientists have framed the laws over the planetary motion in the 17th century and then they got the idea that Moon's gravity by creating tides causes tidal friction thus resistance to the spin of the Earth. Now the Scientists know that tidal friction causes resistance to the spin of the Earth but for **obvious reasons they intentionally have never gone deep to know that how much magnitude is the tidal-resistance**. Ocean water has covered 2/3rd surface area of the Earth and tides are a continuous process taking place over the Earth (ocean) round the clock and it is going on from million and millions of years. Tidal friction by the ocean water is not only by the simple gravity of the Moon but it is also by other two major reasons; even greater than simple gravity of the Moon (Explanation is ahead). **By the high magnitude of the tidal friction**; Earth can not spin even for a few hundred years; it has spun for millions of years and it is spinning by the force (F) which is giving spin (torque) force to the Earth by overcoming the said tidal friction (Brief explanation of tidal friction has been given ahead).

- Prejudice mind-set with the World (Scientists) is so great that they have not understood above said two very simple resistance factors (Resistance by the space and high magnitude of tidal friction) in process to spin then it is beyond their thinking (computing) capability at their own to discover thus to know any other deep rooted resistance factor in process to spin.

Two resistance factors by the molten core matter of the planets (Mercury and Venus) have already been illustrated under **Flash Information** and illustration of some more resistance factors in the process to spin are ahead.

- Further, Now Scientists have discovered that in the space there are some stars with the disc of matter from which (matter of the

disc) new planets have been formed. Said new discovered planets with the stars have not got the spin from the contraction of the cloud but have later got the spin after developing to planets. By knowing all this, Scientists still are with the 400 years old speculation over the formation of the planets in the solar system thus have wrong understanding (knowledge) over spin by the planets.

Some very simple understandings over the spin by the planets/satellites have been stated in the complicated way intentionally by the Scientists to keep away the General Science-Concerned just at the entry-gate from entering into their field.

Examples:

- **Planets spin by the conservation of angular momentum:** (Planet have got angular momentum at the collapse of cloud by its gravity, so it is the energy by the gravity). An automatic wrist watch (with out cell) has automatic function by the energy got from the momentum of the person, who is wearing it. If said watch has been kept over the shelf for some days, it would stop and it would again start functioning after getting the momentum from the person. Automatic watch functions by the restored energy because of gravity but it is called automatic. Similarly speculation over the spin by the planets can be termed as 'Automatic'. So in simple terms, **planets spin automatic**.

- In the past Moon was spinning but its spin has been stopped by the tidal friction and also by another factor as stated under the relevant chapter. Now Moon does not spin because its dense core has gone eccentric and it has developed a bulge by the gravity of the Earth thus it always keeps the same face towards the Earth. But the Scientists to skip away from the said simple fact for obvious reasons have stated the said phenomenon that Moon, which was spinning faster has now, **synchronized** its spin with its orbital motion to keep its same face towards the Earth.

- Similarly as stated for the Moon; Scientists have stated that planet Venus has synchronized its spin with its orbital motion that it always shows the same face to the Earth at its closest approach to the Earth. In fact the said phenomenon is by a dense patch/part over the Venus, which it would have got by the collision or by pulling of a denser object/planet, which in the past history would have been ahead of it towards the Sun. (Explanation is over the website under the relevant chapter). If Venus had not been subject to spin by the force (F), Venus would have stopped its spin by the said dense (discovered/understood) patch because of the gravity of the Earth and also by the gravity of the Sun.

- Similarly if spin by any planet or by any satellite is of similar nature that is not by synchronizing its spin with its orbital motion but it is by a dense patch/part over it. Planet/satellite may have stopped its spin by the tidal friction or by any other cause.

Conclusion:

Use of the dictionary word 'Synchronized' is misleading the cause of spin by the planets/satellites:

The word 'Synchronized' in the past has been used by some of the Scientists (Astronomers), while they have noticed the Moon that why it keeps the same face towards the Earth. Later, the following Generation-Scientists have started blindly following the set-trend to call the spin of a satellite or of the planet as 'Synchronized', if the said bodies show their same face/side to the body around which they orbit.

Use of the said word is wrong, it misleads the Science-Concerned thus keeps away from the real fact that why a planet or a satellite presently keeps the same side (face) of it towards the body around which it orbits or towards any other body near to it. Correct explanation is that spin of such body has been locked due to a denser part/patch in over it.

Moon was spinning in the past but its spin has been stopped by the two factors (i) Tidal friction by the Earth and also (ii) by another discovered factor as stated over the website under the relevant chapter.

Other satellites with the other planets in solar system also do not spin but always keep the same face towards their respective planets. They do not spin on being smaller in size and lack some properties, which give the spin to a body (Explanation is under the relevant chapter). Further, the face which they show to their respective planets, must have a denser path/part.

Self-gravity affect over its own matter (solid/liquid/molten-mass/gas) of a big body. And affect over its matter by the gravity of another nearby big body:

(i) Self-gravity affect over its own matter (solid/liquid/molten-mass/gas) of a big body:

If a body has sufficient mass for its self-gravity to overcome rigid forces, it would assume a hydrostatic equilibrium (nearly round) shape. Denser matter would form its core, which would be at its centre. Every upper shell of the matter would attempt to form of the lighter mass than the shell, which is below it.

World knows much more over it, hence there is no need to give any more information.

(ii) Affect over the matter (solid/liquid/molten-mass/gas) of a body by the gravity of nearby big body:

(a) First of all Challenger/Discoverer thanks the Moon and ocean water of the Earth that they have provided live demonstration of the gravity effect by the adjacent nearby body (Moon) by creating ocean tides. In the absence of said phenomenon, Challenger/Discoverer would have no solid proof, except with his scientific explanations to canvass the Science-Concerneds.

Concerned-Scientists (World) have so deep prejudice mind-set over self-gravity understanding that they accept understood result blindly that the self-gravity is the supreme and nearby big body has no effect by its gravity to distort its shape or to displace its components/elements even if having different densities and different states of the matter (solid, liquid, molten-mass, fluid or gasses).

Self gravity influence of the planet over its own matter is great as compared to gravity influence over its matter by the nearby another planet (celestial body). The said conception is true but it is associated with some ifs and buts too as stated below:

Denser the substance of another body; greater is the gravity effect over it by another body. Further, gravity has its effect over individual particle: If the particles of the substance are bonded together, gravity effect magnitude increases. Fluids/liquids retain their bond together thus these substances are getting a great noticeable effect by the gravity of nearby objects/planets/stars, whereas gasses on being lighter (least density substance) do not respond much with noticeable effect to the gravity of the nearby object/planet.

Every celestial body spins, so the effect over the shape of solid matter by the gravity of nearby planet (celestial body) over the other spinning body is nullified by the spin (rotation). If a body does not spin (or always keeps its same face towards the nearby body), dense patch/part of it would be pulled by the gravity of nearby body and later its densest core matter would go eccentric resulting to lock its spin permanently as our Earth has done with the Moon.

(b) Planets (Mercury and Venus) with their molten cores are tiny objects as compared to the Sun; gravity effect by the Sun over the molten densest elements among the less dense in the molten cores of the planets (Mercury and Venus) can be understood by the following said facts.

Moon can not lift a grain of sand by its gravity from the desert of Sahara and the mighty Earth can not lift even a fine grain dust particle from the surface of the Moon by its gravity. But our Moon which is very small as compared to our Earth that Moon is capable to pull ocean water weighing trillion and trillion.....of tons towards it to create tides; our Earth is helpless to retain its spherical shape of its water (ocean) against the pull by the tiny Moon. Gravity of the Moon is 1/6th than that of the Earth; If the Moon had a deep and vast water (ocean) over it, our Earth by its gravity would have pulled Moon's water/ocean to height many times than what the Moon is pulling ocean water of the Earth (If Moon was formed of only water; Moon by its self gravity would not have been able to retain its spherical shape but its shape would have been transformed to pear-shaped, like of an egg by pointing tip towards the Earth).

If tiny Moon can lift ocean water of Earth by its gravity; why mighty Sun can not pull the densest elements among the less dense by its gravity towards it from the molten cores of the nearby tiny planets (Mercury and Venus)? Please explain.

Conclusion:

It is not only the **self-gravity** of the body, which prevents it from getting its shape distorted by the gravity of nearby big body but other features/factors too play their own role. Rotation/spin by the body helps in retaining the shape to spherical and also rotation/spin resists the denser mass/patch/core from getting pulled by the gravity of the nearby big body.

If the body does not spin and always keeps the same face towards the big body; gravity of the big body plays its own role over the solids/liquid/fluids/molten-mass/gas etc like our Earth plays its role with its gravity over the Moon. (Please read chapter: Moon to understand some of its secrets, which the World does not know, like (i) Why the volcano eruptions over the Moon are over the side, which is near to the Earth? (ii) What causes mysterious quakes that vibrate through lunar rocks over the side which is away from the Earth? and (iii) Why the Moon always faces the same face towards the Earth?). Slow spin-speed too affects the body and its matter, like affect by the Sun's gravity over the molten-core matter of slow spinning planets (Mercury and Venus).

There are some riddles over the Venus; which too are because of the said facts; like why does Venus always keep the same face towards the Earth, when both the planets are at the nearest possible distance? Its explanation is over the website under relevant chapter.



**Ocean tides:
Motive of explanation here over ocean tides:**

Phenomenon of tides may seem to some Concerneds at first glance to be irrelevant to phenomenon of spin by the planets but explanation here is a must to understand some of the following facts:

(i) Phenomenon of tides is the best example to understand affect by the gravity of nearby body (Moon) over the matter (ocean water) of another body (Earth).

(ii) Tides cause friction in process to spin by the Earth. Friction is great enough to stop the Earth from spinning, unless the Earth gets power to spin by a force (F). Similar type of tidal friction molten core matter causes inside the planets, particularly to the planets which are very near to the Sun like, Mercury and Venus. Cause of tide over Earth understood makes easy that how molten core forms tide inside the said planets.

(iii) World knows some facts (reasons), which cause tides over the Earth but in addition to it there are some other facts too which magnify the intensity of the tides as stated below, which are new thus they have become **part of the discovery claim.**

(iv) Explanation over the ocean tides in Science books/write-ups/Internet is not easily understandable by the General Science-Concerneds. To break the prejudice mind-set of 400 years of Scientists/Experts over the challenged subjects, mass awareness among the General Science-Concerneds is required thus in brief and also in very simple way explanation over the ocean tides has been given below:

**What causes the ocean tides?
Two new discovered causes, which magnify tide has also been discovered and stated ahead.**

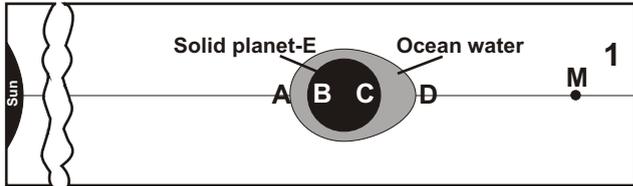
Prior to Newton era, Earth was considered as flat and also no one knew about the gravity by the Earth or by the Moon or by the Sun. After knowing gravity, World came to know that ocean tides are by the gravity of the Moon and also by the Sun, when all the three celestial bodies are in one line by having Moon in between the Sun and Earth or by having the Earth in between the Sun and the Moon. Later, World came to know that additional factor to cause tides is the **centrifugal force** by the orbital motion of the Earth. Though tide by the centrifugal force because of orbital motion of the Earth has significant effect but its effect has been camouflaged by the effect of the Moon's gravity.

Tide formed by some of the causes; (brief and easy explanation):

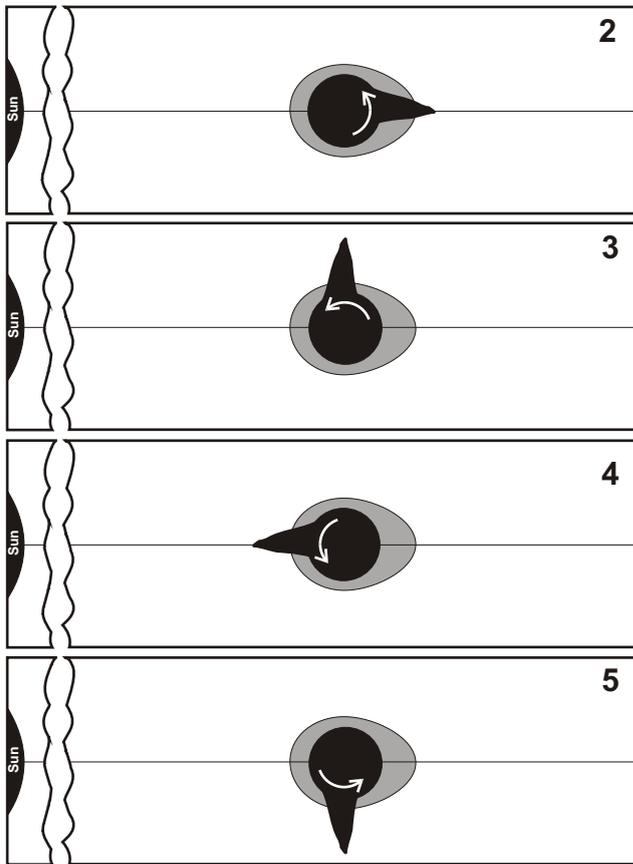
Computed result of all the causes, which form tides can not be understood properly, unless Concerned understands every cause one by one.

(I) Magnitude of tides formed by the centrifugal force because of orbital motion of the Earth.

Ocean tides are not only by the gravity of the Moon as commonly understood but if there had been no Moon, even then tides would be over the Earth but of lower magnitude by only the centrifugal force. To understand the said fact, consider a Planet-E of the size equivalent to the Earth of perfectly spherical shape having a shell of water (ocean) all over its surface. Planet-E by the centrifugal force would always have deeper ocean over the equator at the side away from the Sun than the side, which is facing the Sun as shown below over the sketch (CD would always be greater than AB). Because of the said one of the fact, tides are higher when the Moon shines fully (or at location-M).

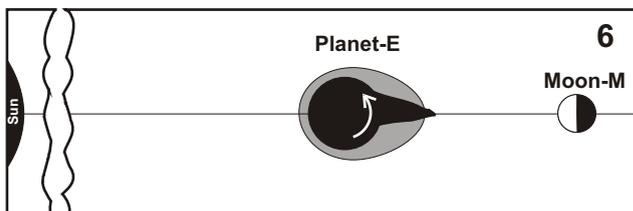


Something more about the tides over the Earth has been stated/exhibited below which would be helpful in further understanding of the spin by the planets. Presume a bulge or mountain over the Planet-E. Ocean water would rise and fall by the centrifugal force as shown below.



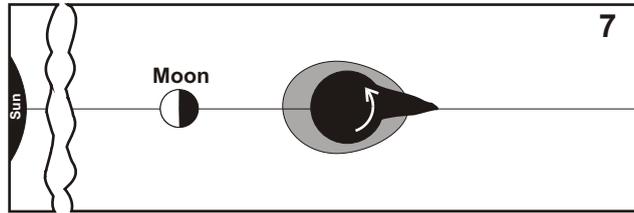
(ii) Additional magnitude of tide formed by the gravity (simple-gravity) of the Moon.

(a) Now presume a satellite Moon-M, when it shines fully i.e., when the Planet-E is in the centre of the Moon-M and the Sun. Gravity of the Moon-M pulls ocean water towards it to form the tide with greater height. Moon-M cannot pull the Planet-E but its ocean water gets the pull.



(b) Tides of lower intensity than the tide when Moon is full is also formed when Moon is in between the Sun and the Earth, because Moon is closer to the Earth at this location.

Note: When Moon is full (or when Earth is in between the Moon and the Sun), distance of the Moon from the Earth is greater as compared to the distance of the Moon from the Earth when Moon is darker (or Moon is in between the Earth and the Sun). In spite of the said fact, tides are of higher magnitude when Moon is at greater distance from the Earth. The said phenomenon of very high tides is by the outward bulge of ocean water by the centrifugal force because Earth moves with speed over the orbit around the Sun.



(c) Does Sun pull ocean water to form high tides, when the Moon is in between-the Sun and the Earth?

World understands that gravity of the Sun pulls ocean water along with the Moon, when Moon is in between the Sun and the Earth to make high tide but it is not so. Gravity of the Sun pulls denser Planet-E with greater magnitude than pull over the water (ocean) by making ocean deeper over the equator at location away from the Sun.

Explanation:

Presume a spherical planet of the size similar to that of the Earth with quantum of ocean water as the Earth has. Because of the orbital motion ocean water would form a bulge over equator at the side away from the Sun by keeping shallow water towards it (Sun). In true sense, Sun not virtually pulled the water but pushed it. This phenomenon is by the centrifugal force because mass of the solid matter is much greater as compared to the mass of the water (ocean) over it.

Now, presume another planet of water of the size that of the Earth with very small solid planet inside at the centre (core) of mass, say just 5% mass of the total planet. Because of the orbital motion of the said planet, small solid mass by the centrifugal force would go away from the Sun instead of coming nearer to the Sun (phenomenon would be similar to extraction of milk-cream from the milk by the vertically rotated drum. Denser contents of the milk go outwards, whereas lighter cream remains inside at the centre to be taken out).

Oceans also get high tides when the Moon is in between the Sun and the Earth (dark night or no visible Moon) because Moon at this location is nearer to the Earth than when Moon is at apogee (full Moon). On being nearer to the Earth pull by the stationary Moon's gravity is further enhanced by the Moon's gravity due to its orbital-motion (explanation of this discovered fact is ahead).

Tides by the Moon-M at both the locations as stated under paragraph (a) and (b) as shown above are higher than the tides when Moon-M is at any other location but tides of very high magnitude are formed when Moon-M shines fully.

Some more but new discovered facts, which also cause tides:

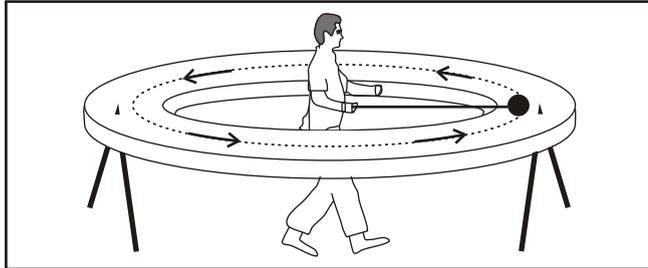
The World still has no knowledge of below said two other factors, which adds their own magnitude to cause tides.

(i) Tides by the Centrifugal force of the Moon (or by the orbital motion of the Moon around the Earth).

Every particle/grain/molecule of the Earth; whether it is solid/liquid/gas that is attached (bonded) to the Moon by its (Moon's) gravity. Moon orbits thus it intends to move tangentially or intends to go away from the Earth with the result every particle/molecule of the water gets the additional pull towards the Moon by the orbital motion of the Moon in addition to simple (stationary mode) gravity-pull of the Moon. Said phenomenon (orbital motion) too adds its magnitude to the tide; gravity pull by the Moon on account of centrifugal force and the said pull is greater than the simple pull by the gravity of the Moon.

Example:

Take an iron ball of weight, say one kilogram with provision to tie a cord of length say two meters. Place the ball over a round table having central space as open as shown over the sketch. Hold with hand the other end of the cord by standing at the centre of the table. Keep the cord slightly stretched. Steel ball in stationary mode has the gravity pull on your hand but you are not feeling its gravity because gravity pull of the ball is almost nil (but not absolutely zero). Now give revolution to the ball by holding the cord firmly. Orbital motion of the ball around you would cause pull outward to your hand by the centrifugal force. This pull by the centrifugal force of the ball is in addition to the gravity pull by the iron ball over your hand.



Note:

- For the orbiting Moon; its cord is its gravity and gravity by Moon's matter has additional pull over the Earth along with its ocean water.
- Information given here makes the General Science-Concerned aware that small steel ball too has the gravity (pull): In 1798 Scientist 'Cavendish' weighed the Earth with his experiment by taking two lead balls of diameter 2" and 12". Gravity attraction between the lead balls and the Earth by knowing density of the lead has resulted to know mean-density of the Earth.

(ii) Thrust by the blow of solar-ejects:

Thrust by the solar-ejects (solar-wind, solar radiation pressure, charged/uncharged particles, rays and gases etc) is so high that it has transformed original atmospheric shell of the Venus to millions of kilometers long tail besides blowing off to space most part of it and have blown off more than 1/3rd original atmosphere of the planet Mars. Magnetic field of the Earth though deflects solar-wind charged particles but the effect of thrust on Earth's atmosphere remains the same. Solar-ejects puts thrust on atmosphere of the Earth and atmosphere transfers it by absorbing most part of the thrust magnitude as cushion by putting some thrust effects also over the ocean water resulting to push further (though with very small force) ocean water to make further shallow ocean at the equator over the location facing the Sun. Thrust by the solar-ejects makes easy (helps) to pull ocean water by the gravity of the Moon, when Moon is full (or Earth is in between the Sun and the Moon) to form high tide.

Resistance to spin-speed of the Earth by the ocean tides:

World understands that tides cause resistance to spin by the Earth but by the mind-set from 400 years over the planetary laws; they virtually and intentionally have closed their eyes and mind to keep away from this fact thus they (Scientists/Experts) are not giving deeper thought into the said fact to know real magnitude of the tidal friction. (In fact they want to be tight-lipped over the said fact).

Explanation:

Above said ocean tide formed over the Earth would always (round the clock) pose resistance (tidal-friction) in process to spin besides posing said resistance from millions of years; with the result Earth can not spin for long period by the conservation of angular momentum, unless Earth is being spun by a continuous torque force (F). It is not possible for the Earth to spin by the understood momentum even for some centuries by the tidal friction of the ocean but how Earth is spinning automatic from billion of years?

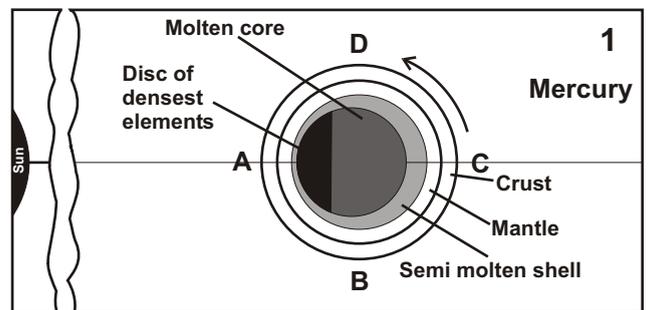


Resistance to spin-speed of the planet Mercury by the tide formed of molten mass inside the planet by its core matter: Similar is the case with the planet Venus.

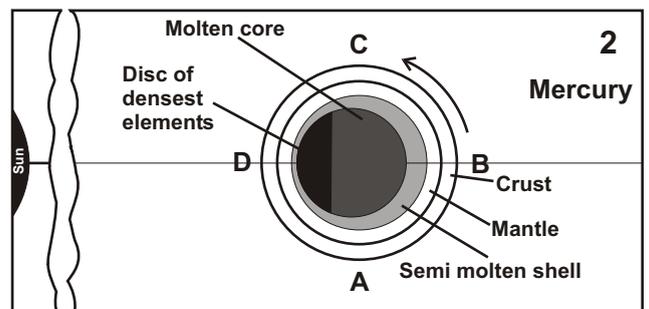
Planet Mercury has huge molten core formed of very denser elements and its upper shells (mantle and crust) are thin and also of lighter elements. Planet Mercury, while orbiting by the Sun's gravity pull and also by the centrifugal force would always keep its molten dense huge core towards the Sun or making it (core) eccentric. Eccentric dense molten core would cause tidal friction with the inner semi-molten side of the mantle resulting to stop spin by the planet Mercury, unless it is powered by a continuous force (F). Similar is the case with the planet Venus.

Conclusion:

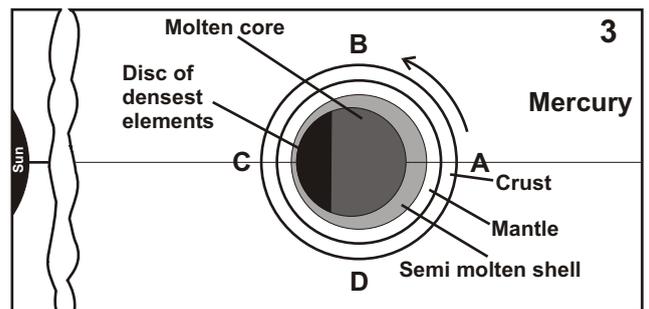
Planets (Mercury and Venus) by having huge and dense molten cores; their cores have developed location eccentric by the gravity pull of the Sun and also by the centrifugal force resulting to cause tidal friction. The said resistance factor in process to spin is in addition to resistance caused by the densest elements among the less dense of the Molten cores of the planets (Mercury and Venus) by facing always toward the Sun. Sketch shown below have given the prove for the said fact.



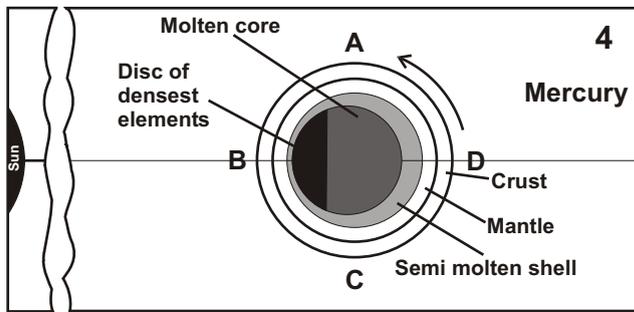
Planet Mercury is closer to the Sun and also spins slowly thus the side which Mercury is facing the Sun gets heated. Further, its huge molten core intends to come nearer to the Sun thus it forms the semi molten shell thinner towards the side which is facing the Sun. With the result semi molten shell at surface A gets heated to become molten, whereas opposite side C becomes some what rigid.



In second step of rotation, location D takes the position to face the Sun. Semi molten shell at D becomes hot and molten by making location B rigid.



In third step of rotation, location C takes the position to face the Sun. Semi molten shell at C becomes hot and molten by making location A rigid.



In fourth step of rotation, location B takes the position to face the Sun. Semi molten shell at B becomes hot and molten by making location D rigid.

Above shown sketches prove that molten core of dense elements cause tidal friction with the semi molten inside shell of the mantle thus said phenomenon causes retardation in process to spin by the planet Mercury. Planet Mercury can not spin unless it is powered by a torque force (F) to spin.

General concept of location of densest elements among the less dense in the molten core of the planets (Mercury and Venus) by the extreme gravity of the Sun:

Challenger has stated earlier that densest elements among the less dense in the molten core always face the Sun due to extreme gravity of the Sun thus they do not spin, while the solid planet (Mercury or Venus) spins slowly. Challenger does not know quantum of the densest elements as compared to the less dense and thus have not attempted to find magnitude of the centrifugal force acting over the densest elements. Magnitude of the centrifugal force and quantum of the total mass of the densest elements can reverse the location of the densest elements among the less dense. **Very high orbital motion** of the planet can keep the densest elements at far away side if their quantum is very low as compared to the lighter elements. If high speed orbital motion has kept the densest elements away by keeping the less dense towards the Sun; even then the situation for the spin by the planet is the same. In both the cases, molten core would not spin but its elements (densest or lighter) would always keep the same face towards the Sun.

Further, the fact is that planets (Mercury and Venus) are away from the Sun not only due to the high speed of their orbital motion; in addition to away from the Sun by the centrifugal force, they are further being away from the Sun by the thrust/push from high blow of solar-ejects. Their low speed orbital motion too can keep planets away from the Sun. So, the said discovered fact confirms and proves that densest elements among the less-dense, irrespective of their proportion in the molten core always face the Sun to cause viscosity friction with the inner semi-molten surface of the planets (Mercury and Venus).

In addition to all above; Sun/planets/satellites/objects/ comets etc are also away from each other by another factor i.e., repulsion by the materialistic rays (Explanation of this discovered fact is over the website).



Four resistance factors, which cause retardation to the spin-speed of the planet 'Venus':

- 1) (a) Densest molten elements among mixture of different density elements of the molten-core of the Venus forms a pocket (disc) in the molten-core and (b) Total dense molten core matter also causes tidal friction inside the planet.
- 2) Densest gas elements among mixture of different density gas elements of the gassy-shell of the Venus form a pocket (disc) in the gassy-shell.
- 3) Eccentric position of the solid-Venus inside its dense gassy-shell.
- 4) Factor, which causes reverse spin to the planet 'Venus'.

(1) (a) How densest molten elements of the core form a pocket (disc) and (b) How total dense molten core matter causes tidal friction inside the planet resulting to cause resistance to spin-speed of the Venus?

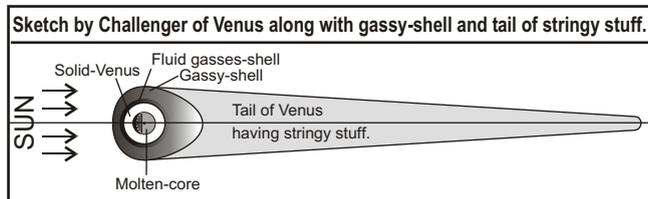
The said both causes of resistance are the same as stated earlier under **Flash Information** for the planet Mercury.

(2) How densest gas elements form a pocket (disc) and how it causes resistance to spin-speed of the Venus?

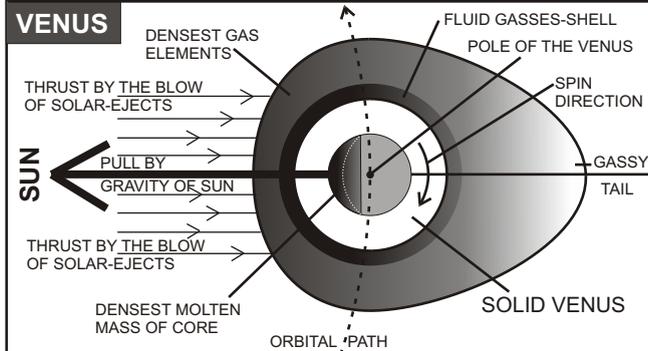
In case the Venus had gas elements of only one kind or of only one density in its gassy shell, there would be no said pocket (disc) thus resistance to spin as discovered and claimed; it is the specific pocket (disc) formed of densest gas elements only among different density elements in the gassy-shell which causes resistance. Specific pocket (disc) of densest gas elements is formed by the two factors; (a) By the high thrust of solar-ejects by the high gravity of the Sun.

(a) Specific pocket (disc) of densest gas elements in gassy shell caused by the thrust of solar-ejects:

Venus has thick and dense gassy shell comprising of different kinds of gasses (92 to 100 times denser than the atmosphere of the Earth). Planet 'Venus' being very close to the Sun, faces high thrust from the solar-ejects. Experts have noticed and know that atmospheric gasses of the Venus forms a tail away from the Sun by the thrust of solar-ejects but they have never given a deep thought or attempted to understand that what effect solar-ejects cause over the gassy-shell at the opposite side of the tail which faces the Sun. High thrust of solar-ejects de-shape its dense spherical gassy-shell to shape of an egg by keeping large curvature side towards the Sun. High thrust of the solar-ejects blow off less-dense upper gassy-shell to either sides by leaving only dense (medium dense and densest) column of gasses over the Venus surface, which faces the Sun.



Sketch showing the effect of thrust by the strong blow of solar-ejects over the gassy shell of Venus and effect of high gravity pull by the Sun over solid Venus, over its molten core and also over its dense gassy shell.



Thrust of the blow of solar-ejects also blows off marginal-dense gas elements from the left over very dense column of gasses by leaving only the densest gas elements towards the Sun. By the said phenomenon only the densest and thick column of gas-elements always face the Sun.

(b) Specific pocket (disc) of densest gas elements in gassy shell; caused by the gravity of the Sun:

Planet 'Venus' on being close to the Sun faces high gravity. High gravity of the Sun pulls out densest gas elements towards the Sun. Further, gravity factor of the Sun also helps by its pull to retain densest gas (or fluid gas) elements always towards the Sun (or does not allow them to spin along with the solid-Venus). This factor causes viscosity friction.

Conclusion:

Both the said phenomena by the thrust of solar-ejects and by the gravity of Sun always keep the densest gas and also fluid- gas elements in thick column in the shape of a disc towards the Sun. This disc of densest gas-elements always faces the Sun, while the solid Venus spins. This phenomenon causes friction/resistance thus retardation to spin-speed of the Venus.

(3) How solid-Venus goes eccentric in its gassy-shell and causes resistance to spin speed?

Strong thrust by the solar-ejects pushes the gassy-shell away besides deforming shape of gassy-shell from spherical to a shape similar to an egg. Strong gravity of the Sun pulls solid-Venus towards it. Both the said phenomena result in to keep the solid-Venus eccentric in its gassy-shell.

If solid Venus was at the centre of the gassy-shell and also the gassy-shell had not deformed its shape (or would be a spherical shell); there would be no such resistance in process to spin by the solid-Venus with its gassy-shell. Egg shaped gassy-shell always retains the same position by keeping tail side away from the Sun but whereas solid Venus, which is eccentric in the gassy-shell spins. This phenomenon causes friction thus retardation in process to spin by the solid-Venus.

(4) How the factor, which causes reverse spin, reduces spin-speed of the Venus to extremely slow?

Reverse spin of the Venus is not because of an impact or collision in the past, which tilted it upside down (to make understand reverse spin) as speculated by the past-era Scientists and now being blindly understood by the mind-set trend.

Recently (May 2011) Scientists of USA have discovered that there are a number of planets with other stars, which too spin in the reverse. All such reverse spinning planets are very close to the stars and also have gassy-shell. This finding confirms that for reverse spin, a planet must be near the star (Sun) and also must have gassy-shell (dense gassy shell). It is the proof that World's speculation (knowledge) over the reverse spin of the Venus is wrong and false and what the Challenger has claimed (Reverse spin to Venus by its dense gassy shell and also on being close to the Sun) is true. Planet 'Venus' gets a reverse spin from the same force (energy), which spins the planets/celestial-bodies. Venus spins in the reverse because of its dense gassy shell and also on being very close to the Sun by the reason/factor as explained under the relevant chapter. It is not possible to explain here in short and also not in brief (without any explanation over the force (F) which spins the planets,) that how reverse spin helps the Venus to spin with extremely-slow speed.

Venus is very slow in its spin-speed than the Mercury (or Mercury spins faster than the Venus) because Mercury gets resistance only from the densest-elements of its core but whereas Venus gets resistance to its spin besides the densest-elements of its core also by the densest-elements of its gassy shell. Moreover, further slow spin-speed is caused by the eccentric position of solid Venus in egg shaped dense gassy shell and also by the reason, which reverses the spin direction of the Venus.

World Challenged (July, 2007)

Challenge to the World is not confined only over the stated discovery over **Mean-densities of the planets** but the World has been challenged for wrong knowledge over some basics of Astronomy and also over the basics of States of the matter and Light/Rays (Rays of any kind). Discovery has solved most riddles and queries, pertaining to the said subjects. Discovery challenge is to the basics, so the said challenged subjects require re-write.

Discovery Patent: Patent Application No. "2863/DEL/2010" by "Ramesh Chander Varma (INDIA)". Title: "Materialistic Universe and working mechanism of celestial-bodies based over materialistic-rays."

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● **Discovery facts have been read, understood, confirmed and edited by Deepak Varma.**
