

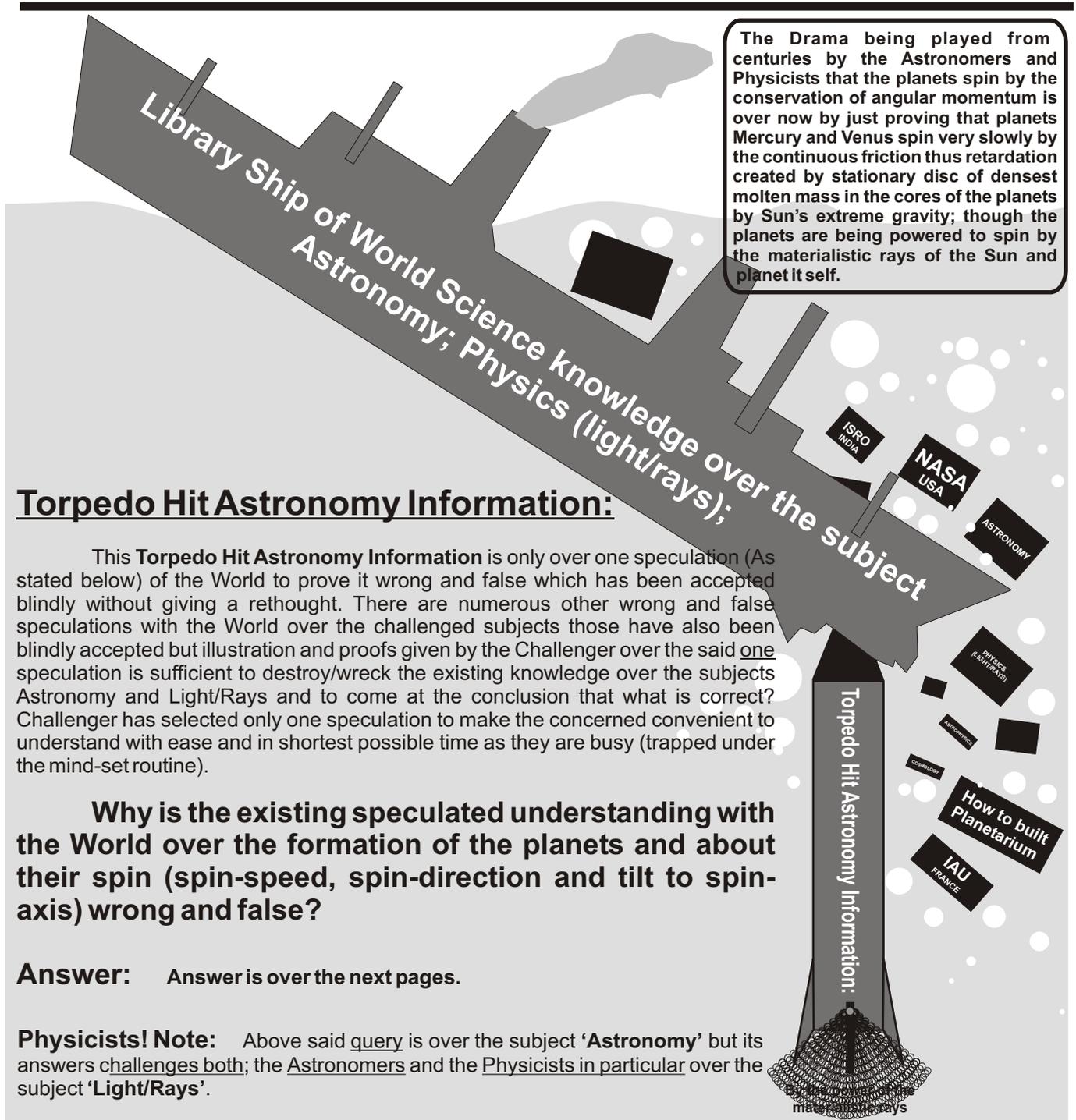
# Proved wrong World's knowledge (understandings) over the formation of the planets and about their spin (spin-speed, spin-direction and tilt to spin-axis) through

## Torpedo Hit Astronomy Information (SI-2):

### by Ramesh Varma (India)

- Torpedo Hit Astronomy Information is to wreck/destroy the existing most prime part of the World's false knowledge over the basics of Astronomy and Light/Rays **by proving wrong** resulting to re-write the said subjects.
- Challenger has proved almost all existing basic speculations and understandings with the World as wrong and false over the formation and functioning of solar/planetary system and also working mechanism of other celestial bodies. Much more have been proved wrong and false beyond explanation over here.
- Challenger has discovered unique properties of light/rays and true working mechanism of solar/planetary system and also functions of other celestial bodies resulting to rewrite the said subjects.

**Note: Must read Missile Hit Astronomy Information prior to reading Torpedo Hit Astronomy Information.**



### Torpedo Hit Astronomy Information:

This **Torpedo Hit Astronomy Information** is only over one speculation (As stated below) of the World to prove it wrong and false which has been accepted blindly without giving a rethought. There are numerous other wrong and false speculations with the World over the challenged subjects those have also been blindly accepted but illustration and proofs given by the Challenger over the said one speculation is sufficient to destroy/wreck the existing knowledge over the subjects Astronomy and Light/Rays and to come at the conclusion that what is correct? Challenger has selected only one speculation to make the concerned convenient to understand with ease and in shortest possible time as they are busy (trapped under the mind-set routine).

**Why is the existing speculated understanding with the World over the formation of the planets and about their spin (spin-speed, spin-direction and tilt to spin-axis) wrong and false?**

**Answer:** Answer is over the next pages.

**Physicists! Note:** Above said query is over the subject '**Astronomy**' but its answers challenges both; the Astronomers and the Physicists in particular over the subject '**Light/Rays**'.

# Repeat of Missile Hit Astronomy Information:

This **Missile Hit Astronomy Information** is to **puncture the brains** of the concerned to flush-out wrong and false knowledge that planets spin by the conservation of angular momentum.

## Why do planets Mercury and Venus spin very slowly ?

(Mercury, Venus and Earth complete one rotation around their axis in 59 earth-days, 243 earth-days and 1 day respectively).

### Discoverer and the Challenger:

**Sketch of the planet Mercury or Venus as viewed from its pole:**  
**Note: Venus spins in reverse direction than as shown over the sketch.**

**Retardation to spin-speed of the planet by the friction of stationary disc formed of densest molten mass among less denser mass in the molten core.**

**Disc; which always faces the Sun. Disc of densest molten mass/elements of shape similar to convex-concave lens.**

**Disc acts like brake shoe-pad; planet's inner side acts like vehicle's inner wheel drum and pull of gravity by the Sun acts like pull by the brake wire of the vehicle to cause retardation thus stop.**

Slow spin-speed of the Mercury and Venus is because of continuous retardation to their spin-speeds given from the friction (viscosity-friction) by the disc formed of densest molten mass/elements in the molten core among less dense mass. This dense-mass molten disc does not spin with the planet (which are very near to the Sun) but always faces the Sun because of great gravity pull by the Sun as Sun is very close to these planets. Friction (viscosity-friction) by the molten dense mass disc is with the inner semi-molten/semi-solid mass of the planet and also at the other side of the disc with the remaining molten mass of its core (the remaining molten mass of the core too spins).

Mercury has the highest density masses as compared to the Venus and whereas Venus has more dense masses in its core than the Earth. Molten-cores of the planets Mercury and Venus have mixture of different density elements/masses. **If the Molten mass of the core was of only one element, however dense it may be, no disc/pocket of the dense mass would have formed to cause friction thus retardation to the spin of the planets.** Detailed illustration over this fact/ phenomenon is over the pages titled: "**Torpedo Hit Astronomy Information**". But complete illustration over the discovery/claims is over the pages titled: "**MATERIALISTIC UNIVERSE**".

### Knowledge with the World:

**What the World has speculated (knows) over the continuous spin and spin-speed by the planets?**

World speculated and accepted (blindly) that the planets spin by the conservation of angular momentum, which they got at their formation from the spinning cloud from which they have been formed. World further speculated that the space is empty (by wrongly understanding the properties of light/rays), thus World understands that the space is frictionless. So the planets, once they got the spin would keep on spinning and spinning with same speed without any external or internal power.

### Conclusion by the Challenger:

**Flash information over only one phenomenon i.e., materialistic rays spin the planets:**

**Materialistic Rays on emerging from spinning body do not travel straight but adopt curved path. Materialistic curved rays of the Sun are spinning the Planets by creating thrust difference on half side which is facing the Sun. Rays from the planets too spin it.**

If the planets were not getting continuous power to spin by the materialistic Sun-rays and also by their own rays as discovered and understood by the Challenger, no planet would be spinning now and all other celestial bodies would also have stopped their spin sooner or later by the friction of said **disc** and **space**. Friction thus retardation formed by the disc of dense-molten-mass over the spin-speed of the planets Mercury and Venus is the proof. They, both the planets would have stopped from their spin millions/billions years ago but the fact is that the planets would not have initiated the spin had there been no power to spin by the materialistic rays.

Further, spin-speed of the Venus is much slower than the Mercury. Extremely slow spin-speed of the Venus is because of an additional factor, other than the retardation to its spin-speed by the said disc. Venus has dense atmosphere, 90 times denser than of the Earth. Materialistic Sun-rays which spin the Venus bend towards the normal on entering into denser medium thus angle of their strike over the Venus' surface changes. Angle of strike by the Sun-rays changes so much that Venus gets reverse spin direction. Because of these reasons, Venus spins very slowly. Reverse spin direction of the Venus is not by the hit of any big object as the World understands. Explanation over this fact/phenomenon by the dense atmosphere is under the relevant chapter of the discovery.

(Sketch showing reverse spin to the Venus by the bended materialistic Sun rays).

**Torpedo Hit Astronomy Information over the formation of planets and the spin (spin-speed, spin-direction and tilt to spin-axis) is over the next pages.**

# Torpedo Hit Astronomy Information

(World Challenged, July 2007)

This **Torpedo Hit Astronomy information** by the answer to the following query given by the Challenger Ramesh Varma has proved existing knowledge with the World over basics of Astronomy and Light/rays as wrong and false thus has resulted to rewrite Astronomy and Physics (light/rays). Only one part (PART-4) of this **Torpedo Hit Astronomy Information** is sufficient to wreck/destroy the World understandings.

**Why is the speculated existing understanding with the World over the formation of the planets and about their spin (spin-speed, spin-direction and tilt to spin-axis) wrong and false?**

Some past-era speculations and understandings over the basics of Astronomy have been accepted blindly by the concerned without giving a re-thought as these were being accepted from the centuries. Some basic unique properties of light/rays are difficult to understand as these properties can not be understood or proved under any human developed laboratory/device, except to understand from the Nature's phenomenon like from the working mechanism of solar/planetary system. Claimed unique properties of light/rays which the World does not understand are keeping the Astronomers/Physicists away from correctly understanding true working mechanism of solar/planetary system or the mechanism of other celestial bodies or the Universe as whole.

**Flash Information** is an eye opener information and Challenger has illustrated his understanding/ discovery with conclusions and proofs under title: **MATERIALISTIC UNIVERSE** and in brief under chapter: **TEN QUERIES** but to make understand a little about his discovery and to prove existing understanding **wrong** Challenger has selected only **a part** of the discovery i.e., The formation of the planets and their spin (spin-speed, spin-direction and tilt to spin-axis) under title: **Torpedo Hit Astronomy Information**.

**Before reading explanation given by the Challenger over the discovery and answer of the said query it is better to know or to re-understand that what the World knows/understands about the formation of the planets and their spin (spin-speed, spin-direction and tilt to spin-axis):**

**Information from the Books, Internet and Newspapers etc., that what the World knows in brief has been attached after the last page of Torpedo Hit Astronomy Information but for reference, few lines are as under:**

**Speculated understanding with the World over the formation of the planets and also about their spin (spin-speed, spin-direction and tilt to spin-axis):**

World understands that solar system has been evolved from a vast spinning cloud. It spun so fast that it turned in to a thin disc. From this thin disc, central part became the Sun and whereas from the outer disc planets and other objects have been formed. Spin of the Sun and spin of the planets and their orbital motion is due to the spinning cloud from which these planets have been formed. Celestial bodies are spinning by the conservation of angular momentum. Spin direction of the Venus and Uranus has been changed later in the past history by the impact of some big object/celestial body. Some concerned understand that the planets have been formed from the dust particles of the nebula and later they got spin by the angular drag from gases from the orbiting disc consisting of gases because planets were orbiting faster than the gases in the disc. Because there is no friction in the space, so the planets would keep on spinning and orbiting for ever and ever. There is no internal and external force which is governing the spin speed and orbital motion.

**Challenger to prove World's speculated said understanding as wrong and false has divided the speculation in the form of said query to 5 parts.**

## Explanation/Answers parts wise:

### PART-1

#### ● **Solar system has been evolved from a spinning cloud (Nebula consisting of dust and gases):**

It is true that solar system has been evolved from a spinning nebula. Most concerned (Experts) consider that dust and gases were also having ice but the Challenger has concluded that water has been formed later over the planets from the gases as explained over the relevant chapter. The first planet which formed the water, was the Venus followed by the Earth. If ice particles were present along with the dust particles and gases from which the planets have been formed, planet Mars would have a thick shell of ice over it. However here, under this illustration it does not matter whether nebula has ice along with dust and gases or not and how our Earth or Venus had got the water. To proceed ahead it is presumed that the nebula too had ice.

### PART-2

#### ● **Nebula/cloud spun fast:**

Vast dimensions over the equator of the Sun suggests from the seen/noticed/understood phenomenon of big formations of the Universe that the nebula could not have spun so fast that it would turn nebula/ cloud to so thin disc. It is only the materialistic rays of the Sun which can transform (has transformed) the matter of the nebula thin as existing by its materialistic rays over its trap zone as illustrated. To proceed ahead it is presumed that the World is right over its speculation.

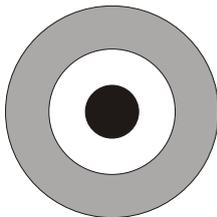
### PART-3

#### ● **Planets were born spinning as they have been formed from a spinning nebula/cloud: (or in other words planets have not got spin later after the formation of the Sun). But some experts understand that the planets have got spin later after their formation from dust-particles by the drag of the gases while orbiting in the disc consisting of gases.**

#### What is wrong with this speculation?

Visualize a cloud/nebula spinning fast, which has turned to a thin disc. Central part of the nebula contracted to form the Sun leaving a gap to isolate outer part of the nebula-disc.

Now visualize the formation of the spinning planets from the left over isolated mass (dust and gases) of the cloud which is in the form of a flat disc. Entire matter of the nebula was spinning prior to formation of the Sun but after creating a gap in between the Sun and



the remaining disc, matter of disc is not spinning but it is orbiting the Sun. Is it possible by the speculated theory to form isolated numbers of permanent spinning cloud organizations of the shape sphere from the mass (dust and gas) of the disc which (mass) in reality is orbiting but not spinning?

World has also speculated that the planets got their spin from the angular momentum given by the drag of slow orbiting gases present in the flat disc while these objects (seeds/cores of planets) were orbiting the Sun at faster rate than the gases. Planets may or may not have got/get the spin while orbiting in the said disc but no big object

could develop in the **rest-less turbulent** gas-disc from the dust particles and the question to develop a planet (so big mass that could transform its shape to spherical by its gravity) does not arise.

**Answer:** No permanent spherical spinning gases (Dust and gases) organization can develop from this orbiting disc which could later become the seed/core of the planet because dust particles can not be clubbed together to grow bigger in this rest-less zone having gases all over the surface of a particles as explained below.

#### **How planets actually have been formed from the dust particles of the disc of nebula?**

Two or more dust particles can only club together to form one object (bigger dust particle), if they are subject to continuous contact with each other under pressure by the gravity or by any other means for reasonable time duration as per the chemical properties of the dust particles. This situation the particles can have only if each and every particle is not surrounded by the gases or water (liquid). But when these particles of dust were orbiting in the disc which also had gases and were also rest-less and turbulent, they could not club together to form bigger dust particles, so nothing bigger could develop from the dust particles in the said gas-disc.

Challenger has concluded that when Sun formed from the central mass of the nebula; its materialistic rays pushed the outer part of the nebula and flattened it by its rays over its flat trap-zone. Over this flat zone (by the factor of thrust by the rays as per surface area, mass density ratio of the object) denser and big dust particles were near the Sun and lighter and small dust particles were pushed far away. Gases were pushed further away by its rays from the dust particles. Sun rays kept the matter orbiting as illustrated. Every dust particle as per its size (Volume) and density got different orbiting speeds by the thrust (thrust which is responsible to force orbiting as illustrated) of Sun rays. Some particles were moving faster and some slower, this phenomenon has given the opportunity to keep permanent contact by a fast moving particle over the another slower moving particle, that too under the pressure by the orbital push by the Sun rays. In the absence of gases and under continuous pressure while orbiting two dust particles clubbed together to form a big dust particle. This process developed dust particles to big object and from big objects to massive object which could transform its shape to a sphere by its gravity. On becoming sphere, Sun rays provided pre-spin direction and spherical body started spinning at faster rate by its own radiated rays. Later some planets generated their own rays (energy) to have more faster spin-speed. (In addition to this pressure factor by the rays, collision/hit by smaller objects with bigger one has resulted to develop the objects more bigger). As the mass grew, the object/planet kept on moving towards the Sun bit by bit. Objects by the collision factor kept on developing eccentric orbits from the circular/elliptical orbits. Some big objects were ejected far away in the gaseous outer zone like comets from where they picked up gases by their gravity to form their atmosphere. Objects on approach near the Sun too developed more gases from their own solid mass due to the heat of the Sun.

#### **Challenger's discovery/understanding based over unique property of rays concludes and proves that how planets have got their spin later after forming spherical objects from a spinning nebula/cloud.**

**Here in brief but explanation is under the relevant chapter. In brief:** Nebula consisting of dust and gases having at its core dense mass particles was spinning by the materialistic rays of the central clubbed stars of our galaxy in the same direction in which the stars of our galaxy were/are spinning. Nebula contracted towards its centre by the effect of gravity. Contraction resulted faster spin of the central mass and also generated heat resulting to form the Sun. Generated heat or the materialistic rays of the Sun drifted away the remaining mass of the nebula disc. As the Sun was/is spinning ; it trapped the nebula matter in a flat disc over its equator plane by forming trap zone by its materialistic rays as understood and illustrated under the relevant chapter. This orbiting nebula matter (dust and gases) while orbiting converted to small objects; small objects converted to big object. Big objects developed to spherical by their gravity. On being developed to spherical in shape, Sun-rays started giving them a spin in their own direction. Once a spin direction was given by the Sun rays these spherical objects (seeds of the planets) started spinning at faster rate by their radiated rays. On becoming further big they got the spin by three factors (By the rays from the Sun, their own radiated rays and generated rays from their cores).

Illustration given by the Challenger over the speculated theory by the World and over his discovered unique property of light rays proves that stated speculated theory of the World is wrong and false.

To proceed ahead it is presumed that the speculation by the World is correct that the planets have been born spinning or got spin later by the drag of gases while orbiting in the disc of gases.

## **PART-4-A (A very important part):**

**Speculation that the spin of the planets is due to the conservation of angular momentum, which the planets have got at the time of their formation by contraction of matter towards their centre due to gravity from the spinning cloud from which they have been formed.**

### **What is wrong with this speculation?**

A cloud organization on contraction by its gravity can get the spin but it can retain the spin for ever and ever only if it is spinning in absolute nothing matter zone or the zone has absolute zero friction. Past-era concerned to justify their speculation over the formation and spin of planets have also speculated (understood falsely) another factor that the space is empty (matter-less), it posses no friction/resistance.

### **Resistance/friction by the space medium:**

Space is filled with the materialistic rays or with the particles of the rays from which these rays have been formed. Space is also filled with solar-wind particles and stars-wind particles or space is filled with the matter, what our Sun and all the stars of the Universe are generating by losing their mass as explained under the relevant chapter. Challenger has given the name to this matter as **white-matter**.

Here in brief; only one example of the comet is sufficient to prove friction/resistance by the space medium. A comet when starts its journey towards the Sun or when comet is at Oort cloud, it has spherical shape by having nucleus at its centre. Nucleus surrounded by the loose mass; gaps in between the loose mass filled with dust and ice. On reaching near the planetary zone, comet forms its tail of dust, gases and water vapors, this formed tail is due to the resistance which it gets from the space medium. On reaching at further faster speed its nucleus starts to glow/burn. This all is because of the friction which it gets from the solar-wind particles and also from the materialistic particles of the rays. This friction of the space would have stopped spin of every planet, if the planets were not getting the spin torque force from the rays. In addition to this factor (resistance/friction by the space medium), there are some other factors too which are responsible to effect the spin-speed of the planets. Among these factors one factor is the most important to which no one from the past-era or from the Modern-era has given a thought. This factor is the viscosity friction between the different elements of the mixture by having different densities in the molten cores of the planets as explained below.

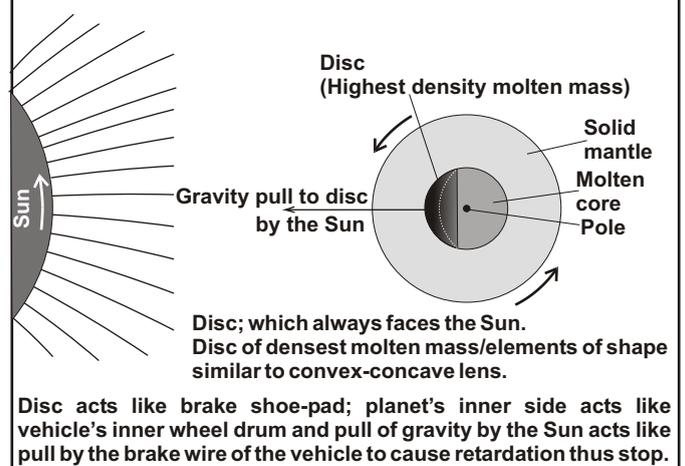
### **Retardation to spin-speed by the molten cores of the planets, particularly the planets which are near the Sun:**

**(Note:** Some more explanation over the spin-speed of the molten cores (Irrespective of the spin-speed by the planets) would follow after the explanation over the continuous retardation effect given by densest molten mass in the shape of a disc to the planets under paragraph: **Spin speed of the molten cores**).

Past-era concerned, centuries before were not knowing that cores of the most planets are molten. The question does not arise that they could know that molten cores contain mixture of different density elements/masses to understand the reason of slow spin speed by some planets or about the spin of the planets.

**Sketch of the planet Mercury or Venus as viewed from its pole:  
Note: Venus spins in reverse direction than as shown over the sketch.**

**Retardation to spin-speed of the planet by the friction of stationary disc formed of densest molten mass among less denser mass in the molten core.**



Cores of most of the planets are molten. This molten mass has mixture of different density matter elements. Heavy matter elements always intend to keep facing the Sun by the gravity of the Sun. This factor keeps on posing continuous retardation to the spin-speed of the planets; particularly to the planets which are very near to the Sun. If the planets were not powered to spin by the rays, this retardation factor would have stopped the spin sooner or later of all planets which have molten core. Further, if the planets were not getting power to spin by the rays, Astronomers would have noticed in the galaxies numbers of planets with the stars which would have not been spinning by the friction from their molten cores. More better understanding can be had by just understanding spin-speed of some planets as stated below:

### **Spin-speed of the Mercury:**

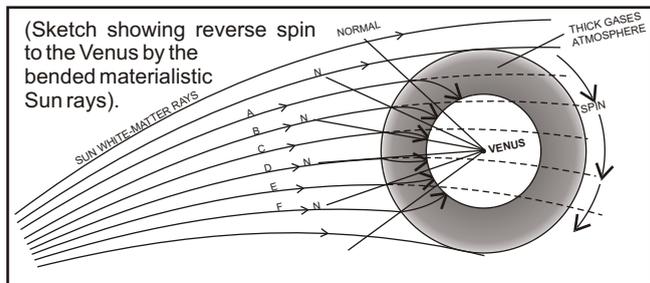
Mercury spins very slowly having axial rotation period of 58 earth-days, 15 hours and 30 minutes. Mercury would be spinning faster by the Sun rays and by its radiated rays, if it was not having its molten core. It has great volume of its molten core as compared to its total size; besides this factor, Mercury has great quantity of the densest elements in its core along with elements of low density matter. Its densest elements always intend to keep facing the Sun by the gravity factor of the Sun. This phenomenon keeps on posing resistance/friction by the dense molten mass in the form of disc with the inner semi-solid mass of Mercury which is in contact with the dense molten mass. If the entire molten mass of the core of Mercury was only of one kind then Mercury would not be getting this said friction; molten-core would be spinning with the same speed with the outer solid mass.

This noticed friction by the molten core disc would have stopped the spin of Mercury, billion years ago, if the planet Mercury was not being continuously powered by the torque force of the materialistic rays from the Sun and also by its own rays. (In fact Mercury would not have initiated the spin if the spin was not powered by the rays).

### **Spin-speed of the Venus:**

Venus spins more slowly than Mercury having axial rotation period of 243 earth-days, 24 minutes and 29 seconds. Venus also has great volume of its molten core as compared to the Earth. Further, Venus has much more dense elements in its core than the Earth.

Spin speed of the Venus is extremely slow because, it has been reduced by **two** factors. Besides friction to its spin-speed from the disc of its densest molten core, similar to as explained under Mercury, spin-speed of the Venus got a set back by its thick atmospheric gases. Venus has 90 times dense atmosphere than our Earth has. Sun rays on entering to denser medium of the Venus, bend towards normal thus Sun-rays put its torque force in the reverse direction. Because the bend to the rays is not great, so Sun-rays could not spin the Venus with greater power. Further, other planets spin in normal direction, so their (other planet's) rays too keep on intending the Venus to spin in their direction of spin. In spite of all these odds, Venus spins but slowly.



If the Venus was not being continuously powered by the Sun-rays and also by its own rays to spin, Venus too would have stopped its spin billions years ago. (In fact Venus would not have initiated the spin if the spin was not powered by the rays).

**Spin-speed of the Earth:**

Earth too has its molten core but much lesser in proportion than the Mercury and Venus. Further, Earth has less dense elements than the Mercury and Venus in its core. In addition to it, Earth is away from the Sun to have lesser effect on its core-matter than the effect over the cores of Mercury and Venus by the Sun gravity thus Earth does not spin so slowly. If the Earth was not continuously powered by the materialistic rays to spin, Earth would have stopped its spin. (In fact Earth would never have initiated the spin if the spin was not powered by the rays).

**Slowing of spin-speed of the Earth:**

Experts have noticed that our Earth is slowing in its spin speed. They have concluded one reason for its slowing and that is the tidal friction by the Moon. Moon is not responsible for slowing and further slowing of the spin-speed of the Earth by its tidal friction as explained under the relevant paragraph under the chapter: **MOON**. Moon is responsible for slowing the spin speed of Earth only once that too to little extent but its tidal friction is not responsible to slow the spin speed further and further resulting to give it a halt. (If the Earth was not being powered by the rays to spin, tidal friction of the Moon would have stopped the spin of the Earth but because Earth is being powered to spin by the rays thus tidal friction of Moon can not stop the spin of the Earth but has become the reason to slow it permanently for its some speed-rate).

Spin speed of the Earth is slowing and further slowing by the addition of gases to its atmosphere by the human. Addition of the gases is making the atmosphere dense. Sun rays are bending towards normal to put feeble torque force over the Earth, thus Earth is slowing and further slowing with the same and similar effect as with the Venus. If we keep on making the atmosphere dense, a stage would come that Earth would stop its spin and on further increase in the density of atmosphere it would result in reverse spin like Venus.

Earth would also be slowing its spin-speed by another factor. Earth is approaching near the Sun (or shortening its orbital distance) by the addition of mass bit by bit. This factor would be adding friction/retardation effect by its densest mass of its molten core like the retardation by the molten cores of the Mercury and Venus which have caused their slow spin speeds. (When a planet approaches near the Sun bit by bit, magnitude of the densest matter which act as disc to cause retardation, keeps on increasing).

If the Earth was not being continuously powered by the materialistic rays, it would have stopped its spin (in fact the Earth would not have initiated the spin if the spin was not powered by the rays).

**Spin-speed of the Moon i.e., satellite of the Earth:**

Moon before forming a satellite of the Earth was spinning in normal direction as Moon was the planet following the Earth. Earth captured it on its close approach towards the Sun by the addition of mass over it (Moon) bit by bit. Reverse direction of the rays of the Venus stopped the spin of the Moon at close alignment of the Venus with the Earth. Later gravity of the Earth developed dense core of the Moon eccentric to lock its spin permanently. **This phenomenon and how the Earth captured the Moon has been explained under the chapter: MOON.**

This noticed fact over the spin-speed of the Moon also proves that the rays spin the celestial bodies.

**Spin-speed of the Mars:**

It needs no explanation. Its spin-speed can be well understood by understanding the spin-speeds of the above stated planets and the Moon.

**Spin-speed of the Jupiter:**

Jupiter spins very fast in spite of being the biggest planet. Its axial rotation period is of 9 hours, 50 minutes, 33 seconds. It spins fast because of reasons by its materialistic rays. Jupiter is far away from the Sun, so its molten core is not being affected by the gravity of the Sun, thus its molten core is not posing retardation to its spin speed. Jupiter being big in size, torque force by the rays of the Jupiter is putting greater thrust on leaving it to spin it faster. Further Jupiter releases more quantum of rays than it receives from the Sun. As Jupiter is generating its own rays too thus it spins faster. In addition to all these factors, density of the materialistic rays particles by the Sun formed as medium is low, which surrounds the Jupiter than the density of rays particles (white-matter) surrounding the planets which are near the Sun. Thus medium in which the Jupiter spins has low resistance as compared to other planets towards the Sun. All these factors result for the fast spin by the Jupiter. The stated facts prove that the Jupiter or the planets are being spun by the materialistic rays.

**Spin-speed of the planets; Saturn, Uranus and Neptune:**

All these planets; Saturn, Uranus and Neptune too spin fast like Jupiter because of the same reasons as explained for the spin speed of the Jupiter. Their axial rotation periods are; Saturn-10 hours, 39 minutes, 22 seconds; Uranus-17 hours and 14 minutes and Neptune-18 hours and 26 minutes. Fast spin speeds of these planets by the stated reasons is the proof that the planets are being spun by the materialistic rays.

**Spin-speed of the Pluto:**

Axial rotation period of the Pluto is 6 days, 9 hours and 17 minutes. Above stated facts are sufficient to understand that why Pluto has the stated spin-speed by the materialistic rays.



**PART-4-B:**

**Spin speed of the molten cores:**

It is obvious that solid mantle part of the planets spin with the same speed but every shell of the molten cores of the planets spins with different speeds. Spin speed is the maximum at the centre of the molten core and spin-speed keeps on reducing at every shell till solid mass touches the molten mass of the core. At this barrier where solid mass of the planet touches the molten core, speed of the molten core-shell at its outer shell can be any; faster or slower than the planet depending upon the quantum of mass and temperature of the molten core.

**Sun:** Every inner shell of the Sun towards its centre would be spinning faster than the outwards-shell by the torque thrust force of the escaping materialistic Sun-rays.

**Earth:** Earth is away from the Sun, so effect of the gravity by the Sun over the densest molten core elements of the Earth is not much as compared with the planets, Mercury and Venus. Thus inner solid mass of the Earth would be spinning almost at the same speed as outer shell of the molten core has the spin. But from this outer shell of the molten core towards the centre of the Earth every molten shell of the core would be spinning at the faster rate by the escaping rays as said above.

**Mercury and Venus:**

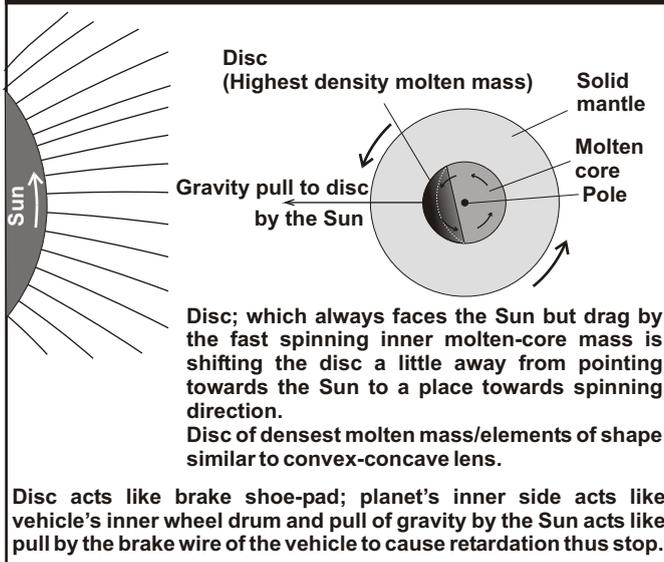
Mercury and Venus are very close to the Sun and have great volume of the molten cores, besides having huge quantity of the dense mass elements in the molten core. So, most part of the core in the shape of a disc of densest mass of the inner molten cores would be posing resistance/retardation with the inner semi-solid mass of the planets. But after this stationary mass disc/pocket of the densest molten mass, every shell of the molten core towards the centre of the planets (Mercury and Venus) must be spinning at the faster rate than the spin speed of the planets.

## Dragging of molten densest-mass disc by the high spin-speed of the molten-core mass and its effect over the orbital move of the planet:

If a planet is not spinning, its molten core must be spinning by the escaping materialistic rays. Molten densest-mass disc of the planets, which are very near the Sun like, Mercury and Venus always intend to face the Sun but spin by the mass of molten core intends to drag the said disc along with its mass. With this attempt molten densest mass disc is not perfectly pointing towards the Sun but would be at a location away towards the spin direction as shown below over the sketch.

**Sketch of the planet Mercury or Venus as viewed from its pole:**  
**Note: Venus spins in reverse direction than as shown over the sketch.**

### Retardation to spin-speed of the planet by the friction of stationary disc formed of densest molten mass among less denser mass in the molten core.



Mercury's orbit is highly eccentric; at Perihelion it is only 46 million KM from the Sun but at aphelion it is 70 million. World may or might not be knowing the reason correctly but definitely the above observed factor World does not know. For one cause, there may be two or more reasons thus the Challenger has explained, what he has observed and concluded which may be one of the cause for the eccentricity of the Mercury.

Challenger has observed and concluded that the molten core of the Mercury must be spinning at faster rate thus matter of the spinning core would be dragging the disc of densest molten mass a little away from directly pointing towards the Sun. This densest molten-mass disc results to have variable distances from the Sun as the Mercury orbits resulting to make the orbit of the Mercury eccentric because Mercury is very close of the Sun and mass of the densest disc is greater as compared to total mass of the Mercury with other planets.

## PART-4-C:

There are two factors other than the space-medium resistance and retardation to spin-speed by the densest mass disc of the molten cores but these below said two factors not have much importance and are just for understanding.

## The other two factors:

● **Effect to spin-speed by the impact/hit by any big object/body:** According the World impact/hit by any big object/body can change the spin-speed and spin-axis direction but in fact such change cannot last for long, spinning body would restore spin-speed and spin-axis direction by the effect of rays as per the new developed spinning body features of the body i.e., shape/mass etc.

● **Effect to spin-speed by any dense mass patch/pocket by the gravity of the Sun:** Momentum of the spin-speed and continuous torque force by the rays of the Sun and also by the rays of the spinning body would not put effect by the gravity of the Sun to stop the spinning body if it has any dense big patch/part. However if the spinning body is spinning very slowly and the dense patch/pocket is big, then gravity of the Sun may stop the spin of the spinning body in spite of the power by the rays.

If the dense mass patch/pocket is over or near the Poles and the planet is very near the Sun, gravity of the Sun may change the spin direction by keeping the dense patch/pocket towards the Sun. However such situated with dense patch/pocket over the Pole of spinning body is not feasible to exist.

## Conclusion by the Challenger:

If the planets (celestial bodies) were spinning by the conservation of angular momentum (and are not being powered by the materialistic rays), we would be noticing great numbers of objects in the galaxies orbiting without spin, like our Moon without any spin and planets which are near the Sun, particularly the Mercury and Venus would also be not spinning by the friction of densest element disc from the molten core with the inner semi-solid part of the planets and also friction to disc from inside the molten cores as explained above. Other planets too would have stopped their spin by the friction from space medium as explained.

## PART-5

### Why are the axis of the most planets inclined?

#### World:

World does not know the answer that why the axis of the planets are inclined. Each concerned has different opinion or the World has only three speculations; that the planets have been formed so, or their axis have been tilted/inclined by the hit of a large body in the past history; or no body knows. Some parts of the paragraphs taken from the Internet confirm so.

#### From Internet March 2010

**Why the axes of the planets are inclined.**  
**William H. Pickering.**  
 Courtesy Maria Mitchell Observatory  
 Proved by the NASA astrophysics Data System

This question is constantly asked by students of astronomy, and the answer generally given is either that it "just happened so", or else that "nobody knows".....

#### From Internet dated 04/02/2010

#### Mercury

..... While we have a 23.4° axial tilt here on Earth, which accounts for all the seasons, Mercury's tilt is only 0.01°. If you could stand on equator of Mercury, and watch the Sun rise and set, it would always follow a line directly above the equator. And if you stood on the poles, the Sun would never get higher than 0.01° above the horizon.....

#### From Internet Year 2008/2010

#### Venus

Yes, the sun rises towards the west on Venus. In addition the day on the Venus is longer than the year! It is obvious, all this is due to the specific history of the formation of Venus or the collisions it might have suffered. The point is that we do not know the exact reason for the difference.

**From Newspaper The Tribune Year 2004**

**Uranus**

Uranus is distinguished by the fact that it is tipped on its side. Its unusual position is thought to be the result of a collision with a planet-sized body early in the solar system's history.....

**Challenger:**

The fact is that the World has wrong and false speculation(s) with it about the formation of the planets and about their axis of spin. That is why the World is far away from correctly understanding the reason that what has tilted the axis of the planets. Under this illustration (**Torpedo Hit Little Information**), Challenger would like to illustrate inclination of the axis of only three planets which have some standard tilt to their axis and these planets are Mercury, Venus and Uranus; their tilt/inclination is 0°, 180° (correct 177°) and 90° (correct 98°) respectively. The reason of the inclination to the axis of the other planets has been illustrated under the relevant chapters of his discovery. The reason of the axial tilt/inclination to the planets stated here can be better understood only after understanding the claimed discovery.

Extreme variation in the tilt to the axis of the planets among each other is the proof that all the planets are not having inclination which they got at their formation as the World has speculated the reason of formation of the planets from one spinning cloud/nebula. So the other reason left with the World is that the planets have tilted/inclined axis of spin by the impact/hit of a big object. Before any conclusion, Challenger would like to illustrate the reasons of the axial tilt of the said three planets.



**PART 5-A:**

**Mercury (Axial tilt/inclination 0°):**

**Some facts about Mercury which need a thought from the Concerned:**

- Mercury has the greatest chances of its collision with the objects of solar system because it has shortest orbital circumstance. So every asteroid comet has more chances of its collision with Mercury than other planet at its visit towards the Sun. In spite of this fact, its axial tilt is 0°.
- Mercury has the greatest chances to be hit with faster speed by any asteroid/comet because every asteroid/comet gains maximum speed on just reaching near the Sun. In spite of this fact, its axial tilt is 0°.
- As believed (understood) by the World the planets Venus and Uranus have got extreme tilt by the impact of big objects. Both these planets have thick and dense gaseous atmosphere. If hit by any object to the planets which have cushion of their gases can tilt the planets (Venus and Uranus) so much, it is astonishing fact that no hit in billions years could tilt the Mercury (thus has 0° tilt) which has no gaseous atmosphere. But the fact is that, Mercury too has faced big hits as per the concerned understanding exhibited below.

**From Internet March 2010**

**Mercury-The Hot Planet**

.....Because the planet has no atmosphere, the asteroids never burn off.....Asteroids have hit Mercury for millions of years. Each hit leaves its mark like the ones on our Moon.....

**Exploring Mercury**

.....It seems that Mercury lost a huge amount of its mantle/lithosphere millions of years ago. It may have hit another large object while orbiting the Sun. That fact means the layer of rock that covers the core is very thin when compared to other terrestrial planets.....

**Why has Mercury 0° axial tilt/inclination?**

The thought that Mercury has not been hit by any big object which could tilt spin axis of the Mercury is a thought to keep one self in the dark. Every object is getting hit(s) and collisions, which tilts the planets but every planet restores back its position (tilt) as per the new conditions developed by the materialistic rays of the Sun. Below stated are some reasons that why Mercury has 0° axial tilt/inclination.

**Note:** Any attached body with the planet is its own part; satellite(s) of the planets are the parts of the planets and vice versa. Flat rings of particles around the planet are also its part and vice versa. The part(s) and the planet have been bonded together by the materialistic rays and gravity of the planet and also bonded by the rays and gravity of its part. Materialistic rays from the planet keep its part(s)/object(s) over its equator plane as explained under discovery information.

- Mercury does not have its Moon (satellite) like Earth has because its gravity is not sufficient to hold any satellite against the thrust magnitude by the Sun rays over its satellite. Moon of the Earth is the part of the Earth and vice-versa; both have been bonded together by the materialistic rays of the Earth and the Moon. For giving a tilt to the axis of spin of the Earth, Moon is the one reason among some other reasons. Mercury does not have its satellite, so its axial tilt is zero.
- Mercury does not have its satellite of size comparable with its own size, similar to satellite of the planet 'Pluto'. If Mercury has its satellite of the mass more than 50% of its own mass, both the objects (Mercury and its satellite) would be behaving as one long object bonded by the materialistic rays of the both objects. In such case clubbed object (Mercury and its satellite) would be spinning similar to Pluto or like Uranus (Solid core of the Uranus too behaves the same because of its long shape as explained ahead. Materialistic Sun-rays do not allow such long core/planet formation to spin vertically over its thin equator plane trap zone, so such formations have to spin horizontally with axis of spin parallel to their orbit planes). Mercury does not have its satellite of the size in its proportion similar to Pluto, so axial tilt of the Mercury is zero.
- Mercury does not have variable or different surface conditions at its upper hemisphere with the lower like the Earth has by forming mountains and having plains and water smooth surface. Variable surface conditions over upper and lower parts effect the position of axis by the thrust from materialistic rays of the Sun. Because Mercury does not have irregular shape of surface like the Earth but has entire smooth surface over its sphere thus it spins with zero axial tilt.
- Mercury spins very slowly and it is very near to the Sun thus its every part of the surface/matter gets a chance to become soft by the heat. Any big asteroid/object on its collide with it, if has density difference than Mercury; collided matter if it is denser goes towards the core with the passage of time and if it is lighter it remains over the surface, thus Mercury keeps on retaining easily the same density at its every shell. This factor also helps Mercury to get rid from any dense matter patch, which could become the reason of its tilt.
- Mercury does not have flat rings formed from the dust and small objects like some gaseous big planets have. These rings act as wings of the planets (Jupiter, Saturn and Neptune). Ring or the wings cannot be over the same plane as that of materialistic rays of the Sun, thus the rings of the planets get a tilt resulting to tilt its planet. As Mercury does not have the rings (wings) thus its axial tilt is zero.



**PART 5-B:  
VENUS: (Axial tilt/inclination 178<sup>0</sup>-18” or 180<sup>0</sup> Appx).**

As per the World understanding some concerned admit that they do not know the reason but most concerned or the World understands that Venus has got reverse direction by the hit of a big object/body. Very few concerned understand that Venus has been formed from a cloud which was spinning in the reverse direction.

Those who understand that Venus has been formed from a cloud that was spinning in the reverse direction have not given a deep thought over the formation of solar-system or over the formation of planets and their spin thus is their said false speculation. Illustration given by the Challenger over “**Torpedo Hit Astronomy Information**” and also over his discovery claims under title: ‘**MATERIALISTIC UNIVERSE**’ has sufficient information that can prove the said speculation understood by a very few concerned as wrong and false.

**Did hit by a object reversed the spin direction of Venus by tilting its poles by hitting near the pole or has reversed its spin-direction by hitting over its equator?**

**Speculation over the hit that has reversed the pole’s position:**

If an object has hit the Venus by moving over a plane passing through the spin axis of the Venus it can tilt the spin-axis or its poles. But there is no force or obstacle that could stop the Venus just after getting a tilt. In such case of the hit, Venus could have adopted spin axis parallel to its orbital plane. Further, hit would not have spared the Venus from becoming it eccentric with the Sun, whereas orbit of Venus is almost nearly circular of that any planet with an eccentricity of less than 1%. The said factor suggests that no hit has reversed the poles to make understand that Venus spins retrograde.

**Speculation over the hit that has reversed the spin-direction by hitting over or near its equator plane:**

If the object has hit the Venus by moving over any other plane other than the above said plane passing through the spin-axis of Venus and below stated plane passing through the equator of the Venus, Venus would have adopted any inclination other than what it has now. So another plane for consideration of hit left is the only plane passing through the equator of the Venus.

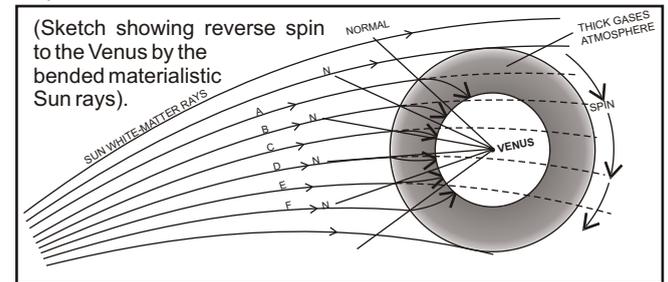
Venus can not reverse its spin direction by the hit of a big object by moving over plane passing through the equator of the Venus by the below stated some reasons and facts.

- Neither the past-Venus, nor the hitting object was made of the mass which was formed of one solid object by forming from a molten mass that on its hit could have reversed the spin direction of the Venus. Hitting object, if it was the comet, its nucleus must be formed of one solid-mass but definitely not the Venus. Venus was composed of loose mass bonded together by the gravity factor.
- Composition of the Venus suggests that the impact magnitude which could reverse the spin direction of Venus either can smash the Venus or wipe out its part but no hit can reverse the spin direction. Any hit at the centre or near to it would smash the Venus but any hit away from the centre can only smash/wipe-out only it’s hit-part. Hit of an object can increase the spin-speed of a planet or can give some spin-speed to a stationary planet but to revert the spin-direction of a planet (Venus) by the hit has no ground even to speculate.
- Already said factor that if Venus has got reverse spin by any hit, it would not have retained its circular and no-eccentric orbit is also a big proof that no hit has reversed the spin direction of the Venus.

There is also another point for consideration that Venus has thick gaseous atmosphere, which would always prevent Venus from high-impact from the objects. That is why it has developed/retained circular and centric orbit in spite of the hits form the objects/bodies. This observed factor of mild-collision/hit by the cushion of gases can be well understood ahead under the explanation over the tilt to the axis of spin of the Uranus.

**What has actually reversed the spin direction of the Venus?**

Reversed spin direction of the Venus is by the materialistic Sun-rays which bend towards normal because of dense atmosphere (90 times denser than the Earth) of the Venus to cause torque force in the reverse direction as explained by the Challenger under the relevant chapter.



**PART 5-C:  
Uranus (Axial tilt/inclination 98<sup>0</sup> or 90<sup>0</sup> Appx).**

For understanding the axial tilt/inclination of the planet ‘Uranus’ like understanding over the tilt of Venus some concerned admit that they do not know the reason but most others understand the same reason as understood for Venus.

**From Internet March 2010**

..... Uranus is distinguished by the fact that it is tipped on its side. Its unusual position is thought to be the result of a collision with a planet-sized body early in the solar system’s history. Voyager 2 found that one of the most striking influences of this.....

Uranus too has not got tilt to its spin-axis by the hit of a big object/body as falsely understood by the World, the following reasons and factors are self explanatory that no hit has tilted axis of spin of the Uranus.

- If Uranus has got a tilt to its spin axis by any hit, its rings would not have gone along with its tilt over its equatorial plane. It is the materialistic rays of the Uranus which have arranged the matter to form its rings as illustrated under the relevant chapter.
- Solid core of the Uranus is composed of the mass which has the shape, longer distance between it poles than at its equator. Confirmation of this shape has the proof concluded from the fact that gaseous shell over the Uranus has not enlarged at its equator than the distance between its poles in spite of its fast rotation.

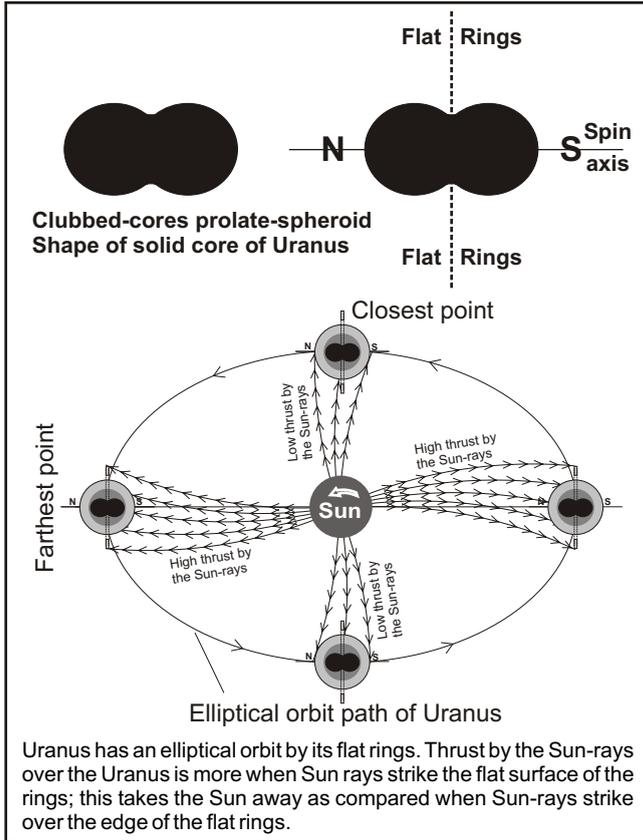
**From Internet March 2010**

.....It was once believed that Uranus had internal structure similar to that of Jupiter and Saturn, of a rocky core surrounded by a dense mantle of liquid helium, covered in turn by a gaseous atmosphere of mostly hydrogen and helium gas. However, Uranus does not bulge at its equator as would expected for such a composition and such a rapid rate of spin; its equatorial diameter is only 2.4% bigger than its polar diameter. The planet is now thought to have a rocky core at the size of the Earth, with a mixed, superdense atmosphere that extends from the boundary of space to the rocky core.....

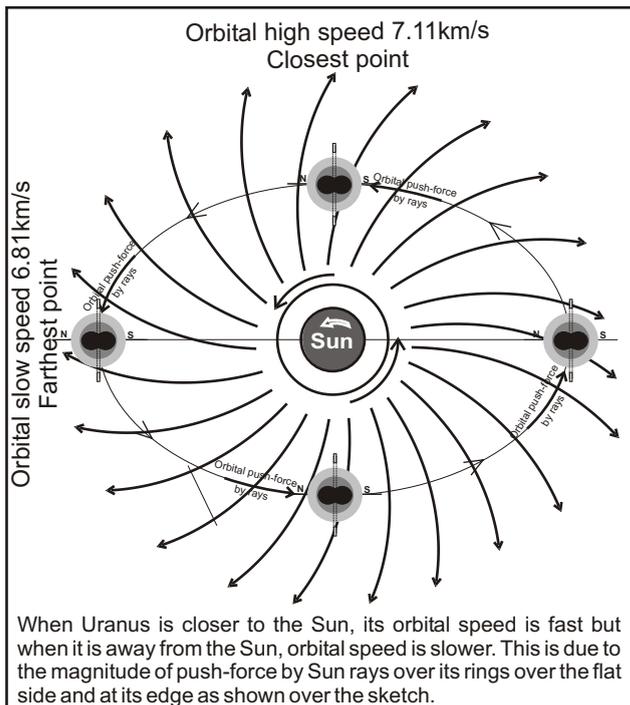
Any solid body that has long shape, like core of the Uranus that body can not spin vertically over the equatorial plane of the Sun because Sun rays are forming a trap zone over this plane. That is why Uranus is spinning with its axis almost parallel to its orbital plane or with its axis tilted at 98<sup>0</sup> (or 90<sup>0</sup> approximate).

**Some other facts about Uranus, which provide proof that it is the thrust factor of the materialistic rays of the Sun that has tilted the spin axis with its thrust.**

- It is the thrust of materialistic rays, which have formed elliptical orbit of the Uranus by the reason of its flat-rings. Flat rings of the Uranus when faces its edge towards the Sun it is closest to the Sun by the least thrust from Sun-rays. When flat side of the flat-rings faces the Sun-rays, Sun-rays are drifting the Uranus away from the Sun.



- Uranus has variable orbital speeds. Minimum orbital speed 6.49km/s; maximum orbital speed 7.11km/s thus has mean orbital speed 6.81km/s. Orbital motion of the Uranus is slower when it is away from the Sun because the Sun-rays which are responsible for its orbital motion are weaker at far off position. Besides weaker sun rays, Sun rays which are responsible for the orbital motion are sticking at the edge of the rings, thus putting less thrust force over the Uranus but where as when the Uranus is near the Sun, Sun-rays are striking at the flat side of the rings thus making its orbital motion speed more than when Uranus is at far-off point.



- How have two nearby planets collided together with mild impact to club their cores (of prolate-spheroid shape i.e., longer distance at their poles) which resulted for the formation of existing planet, called Uranus?

For reply this paragraph has been taken from the Illustration over the chapter Uranus under title: MATERIALISTIC UNIVERSE.

- What had/has formed said unique shape (prolate-spheroid) of the solid core of Uranus?

There are extremely rare chances that two planets clubbed together with mild collision; mostly they collide with high impact to form small fragments which develop to a spherical shape within a short span of time. There is a reason behind, which has resulted mild collision or clubbing of two planets to form a shape of the solid core similar to shape of two solid hemi-spheres having in between a flat disc. This shape of the solid core is not stable; after some time (millions of years or so) the said core would develop to spherical, which would results for uplifting the axial tilt to spin Uranus like other planets. Existing prolate-spheroid shape of the clubbed solid cores must be having in the past another shape (i.e., Two spherical solid cores touching closely each other) at the time of clubbing or mild-collision.

During the past history, both the planets which on clubbing formed the prolate-spheroid shaped solid core of the Uranus were close to each other, one was following the other. As stated earlier that the planet which was ahead to another because of the Sun rays' thrust factor, moved slowly by the addition of mass bit by bit towards the Sun than the planet which was following. This phenomenon resulted for slow approach of the following planet towards the planet which was ahead to it. Collision (clubbing) of the spherical solid cores of both the past planets was further softened by some other factors other than slow approach. i) Both the past-planets, (like the present state of the planets of this region) were releasing more rays than they were receiving from the Sun; their rays acted as repelling rays. ii) Both the past-planets (like the present state of planets) were surrounded by thick gases and cores were surrounded (like the present state) with the liquid gases. iii) When both the planets were approaching towards each other to collide or to club, each core would have pulled gases and liquid gases like the Moon which pulls ocean water towards it to form tides. This phenomenon would have developed thick gases/ liquid-gases cushion in between the colliding solid cores. These factors must have prevented smashing of the solid cores of both the past-era planets during their collision (clubbing). Gravity of the clubbed spherical solid cores kept both the solid cores together by pressing with each other. Clubbed two solid spherical-cores at the time of collision or one solid-core of the prolate-spheroid shape developed with the passage of time as stated by the Challenger could not spin like other planets. It had/has to spin only in the position in which it is now spinning by the V-Notch pattern (trap-zone) of the Sun-rays.

## Final result by the Torpedo Hit Astronomy Information:

Information under **Missile Hit Astronomy Information** is sufficient to puncture the brain of the concerned to flush-out stored wrong and false knowledge over the said subjects but above said information under title: **Torpedo Hit Astronomy Information** over the discovery is sufficient to destroy stored knowledge/information medium (Books, literature, CDs, information over the Internet and over the computers) and to erase wrong stored knowledge from the brains of the concerned and to accept the discovered understandings over the challenged subjects. Challenger is confident that sooner or later the World by understanding the claimed discovery.

- Has to rewrite the subject: Astronomy
- Has to dismantle existing planetariums and to re-engineer as per the discovery.
- Has to rewrite the chapter over the subject Light/Rays (Physics).
- Has to rewrite also most other subjects of Science, which are directly or indirectly related to the said challenged subject.

**AND**

- Has to accept that Science-knowledge has gone upside-down in the 21st century.  
(Note: Medical Science (other than surgery) too over most World understandings would face similar action shortly from the Challenger)

### Moral:

It is better for the World to understand the discovery in shortest possible time. That would save the students and coming generations from being taught wrong the said subjects. This would also help the concerned-experts to understand Nature's phenomenon correctly than being trapped into the theories. In addition to all as said quick action over said discovery to accept it would save trillions and trillions dollars, which would go waste till the discovery remained un-accepted.

Hope the World would wake-up from the deep mind-set trend at the notice of this **Torpedo Hit Astronomy Information**.

Complete information over the claimed discovery is under title: **MATERIALISTIC UNIVERSE** over website: [www.newtonugeam.com](http://www.newtonugeam.com); better ask for the latest copy of the CD.

**Note:** After going through the contents of **Torpedo Hit Astronomy Information**, read **Flash Information** and then read answers of the **Ten-Queries**. Illustration over the discovery under title: **MATERIALISTIC UNIVERSE** should be read after reading the said information.

## Attention!

**Science students/ex-students** (Matriculate to M. Sc. or any highest academic qualified): **Get reward<sup>#</sup> (Not prize but reward) Rs. 50 Lakhs (Five million) or hundred thousand US Dollars by proving the Challenger: Ramesh Varma WRONG** over the challenged subject 'Astronomy' & some basics of Physics. (Working mechanism of solar/planetary system based over unique property of light/rays).

**NOTE:** No need to peep through telescope and microscope for Astronomy and Light/Rays respectively. Rather those who have never peeped through telescope are the most competent to understand basics of Astronomy because of their mind's concentration over the facts than those, who by peeping through telescope have lost their mind's concentration in the vast and endless space and Physicists by seeing/peeping through microscope have narrowed their mind's purview of thoughts thus knowledge to link various facts.

## Prime cause of wrong knowledge with the World:

World would remain trapped for long period under wrong and false knowledge over the said subjects unless subject ASTRONOMY (its basics) is made compulsory subject for every Physicists to understand unique discovered properties of light rays. And the subject PHYSICS (Basics or unique discovered properties of light/rays) is made compulsory for the Astronomers to understand true working mechanism of solar/planetary system.

## World Challenged (July 2007)

over wrong/false knowledge with the World about some basics of Astronomy and Light/Rays. (Resulting to re-write the said subjects).

### Challenger: Ramesh Varma (India)

**Motive of the Information:** Concerned in individual capacity is requested to reply/comment/suggest to strengthen the claims/challenge for early acceptance of the discovery/understanding by the World. But if the concerned Organization/Agency/Department/University/Institution finds the information as incorrect then should give the reply that why the discovered facts\* are not correct. If correct, then what is the fate/status of the existing accepted speculations\*?

#### \*facts:

- Slow spin speed of the planet Mercury and Venus is due to the friction of densest molten disc mass in the cores of the planets.
- Tilt to spin axis of the planets is by the materialistic rays of the Sun because of the physical properties of the planets.
- Retrograde spin direction of the planet Venus is due to the bending of materialistic rays of the Sun on passing through dense atmosphere of the Venus.

#### # Speculations:

- Planets spin by the conservation of angular momentum.
- Tilt to the spin axis of the planets is because of the hit by any big object.
- Reverse spin direction of the Venus is due to a hit by any massive celestial body.

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## What the World knows/understands in brief about the formation of the planets and their spin (spin-speed, spin-direction and tilt to spin axis)?

### Formation of the planets and their spin (spin-speed, spin-direction and tilt to spin-axis):

#### • Formation of the solar system:

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.....

## • Formation of planets:

FROM INTERNET MARCH 2010.

### Formation of planets

The various planets are thought to have formed from the *solar nebula*, the disc-shaped cloud of gas and dust left over from the Sun's formation. The currently accepted method by which the planets formed is known as accretion, in which the planets began as dust grains in orbit around the central protostar. Through direct contact, these grains formed into clumps between one and ten kilometres (km) in diameter, which in turn collided to form larger bodies (planetesimals) of ~5 km in size. These gradually increased through further collisions, growing at the rate of centimetres per year over the course of the next few million years.

The inner Solar System, the region of the Solar System inside 4 AU, was too warm for volatile molecules like water and methane to condense, so the planetesimals that formed there could only form from compounds with high melting points, such as metals (like iron, nickel, and aluminium) and rocky silicates. These rocky bodies would become the terrestrial planets (Mercury, Venus, Earth, and Mars). These compounds are quite rare in the universe, comprising only 0.6% of the mass of the nebula, so the terrestrial planets could not grow very large. The terrestrial embryos grew to about 0.05 Earth masses and ceased accumulating matter about 100,000 years after the formation of the Sun; subsequent collisions and mergers between these planet-sized bodies allowed terrestrial planets to grow to their present sizes (see Terrestrial planets below).

When the terrestrial planets were forming, they remained immersed in a disk of gas and dust. The gas was partially supported by pressure and so did not orbit the Sun as rapidly as the planets. The resulting drag caused a transfer of angular momentum, and as a result the planets gradually migrated to new orbits. Models show that temperature variations in the disk governed this rate of migration, but the net trend was for the inner planets to migrate inward as the disk dissipated, leaving the planets in their current orbits.....

.....After between three and ten million years, the young Sun's solar wind would have cleared away all the gas and dust in the protoplanetary disc, blowing it into interstellar space, thus ending the growth of the planets.....

## • Why do all planets rotate around an axis? What is the force that makes them rotate at a constant speed?

FROM NEWSPAPER THE TRIBUNE YEAR-2003

### Why do all planets rotate around an axis? What is the force that makes them rotate at a constant speed?

When such a question comes to our mind there seems to be a feeling that a sweet well-behaved planet is sitting there unmoving and quiet when something happens that makes it rotate and then continues to push it around at a constant speed. Such a feeling is misplaced. Rotation and revolution are movements that are integral to the manner in which the planet is created.

The creation process is dynamic. For example it may happen that when a cloud of material is going around a central star the particles, large and small, in that cloud star accreting due to mutual force of gravity to ultimately make a conglomerate that begins to look like a planet. This conglomerate would then have the motions that are resultants of the momentum and angular momentum of the initial particles and stones.

The probability that the angular momentum will be exactly zero is also zero. Therefore the planet will emerge with some positive angular momentum. In other words it is most likely that it will be rotating.

There is a bias introduced by the initial processed and early history of formation of the solar system. It is believed that primarily the whole of the solar system was a single complex happening. A slowly rotating large cloud of gas and dust started to collapse. In order to conserve the angular momentum the speed of rotation increased. The equatorial part of the cloud resisted the inward fall of the material while towards the poles there was no effect of the centrifugal force.

The shape of the cloud tended to look like a disc with a bulge at the centre. The central part became our sun when the heat generated through inward falling of matter created temperature where thermonuclear reactions could start. The material at the fingers of the cloud basically inherited the rotation direction of the initial cloud, though it was spread into disc.

The coagulations of the material into clusters lead to the birth of planets. So rotation and revolution was their inheritance.

There is no force within them that caused or causes their motion. The motions of the planets can be changed if they happen to collide with other large masses, as might have happened more frequently in the early history of the solar system.

The important thing to remember is that a moving mass would continue to move in its path unless there was an external force on it. Luckily that happens fairly infrequently if we measure time in human life spans.

## • From where does Earth (planets) receive the energy to rotate around own axis?

FROM NEWSPAPER THE TRIBUNE, 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).

## • Why most planets have tilt to their spin axis?

FROM INTERNET MARCH 2010

### Why the axes of the planets are inclined.

William H. Pickering.

Courtesy Maria Mitchell Observatory

Proved by the NASA astrophysics Data System

This question is constantly asked by students of astronomy, and the answer generally given is either that it "just happened so", or else that "nobody knows".....

## • Why does Venus spin retrograde i.e., in opposite direction to the Earth?

FROM NEWSPAPER THE TRIBUNE, YEAR - 2004

### Earth revolves around the sun from west to east ; the Venus goes in the opposite direction. Why is it so?

Yes, the sun rises towards the west on Venus. In addition the day on the Venus is longer than the year! It is obvious, all this is due to the specific history of the formation of Venus or the collisions it might have suffered. The point is that we do not know the exact reason for the difference.

## • Why does Uranus spin with its axis almost parallel to its orbital plane?

FROM INTERNET, YEAR - 2008/2010

Uranus is distinguished by the fact that it is tipped on its side. Its unusual position is thought to be the result of a collision with a planet-sized body early in the solar system's history.....