

A new discovery claim (2007) by Ramesh Varma (India). It is not a new theory but a scientific fact.

**How Hot-Jupiters have formed;
Why some Hot-Jupiters rotate in the reverse direction and why some of them even orbit around the Star in the reverse direction?**

Answer to above said question lies within the claimed new discovery (2007) by Ramesh Varma (India) that Prime and Sole Fundamental of the formation and functioning of the Universe is 'Universe is Materialistic'; whatsoever we see or can't see in space and the rays of all kinds are materialistic. There is no dark matter; space is occupied by the invisible white matter released by the stars and other celestial objects.

What the World understands?

• How Hot-Jupiters have formed?

Scientists are with some theories and hypotheses but not sure about the process that has formed Hot-Jupiters.

• Flipping Jupiters! Why some planets spin backward:-

Recently Scientist have come to know that some gassy giants called Hot Jupiters rotate in the reverse direction and some of them even orbit in the reverse direction. Such Hot Jupiters are close to their stars but they have not been able to know that why it is so. Some reference related to it has been taken from the Internet: Washington (Reuters) as on 09/11/2017 (Besides their backwards twirling, which the astronomers call flipped orbits, these big planets huddle close to their stars, unlike Jupiter. "That's really weird, and it's even weirder because the planet is so close to the star," Frederic Rasio of Northwestern University said in a statement. "How can one be spinning one way and the other orbiting exactly the other way? It's crazy. It so obviously violates our most basic picture of planet and star formation.") Internet: <http://www.reuters.com/article/us-flipping-jupiters/flipping-jupiters-why-some-planets-spin-backward-idUSTRE74A73820110511>

Discoverer and the Challenger

The subjects Astronomy and Physics (states of the matter and rays) float over the theories, speculations, hypotheses and postulations. The said English words represent for the tentative supposed information; their meaning is 'not the facts'. Discovery claim by the Challenger is not a theory but a scientific fact. So, he has been able to find correct answer to the above said question.

Flash information is as under:-

• Scientists have no answer to how solar Jupiter has become the biggest planet in the solar system then how can they understand correctly the formation of Hot-Jupiters. Discoverer has the answer to how solar Jupiter has become the biggest planet and also by visualization based over his discovered basics and materialistic properties of the rays; he has been able to understand that how solar Jupiter in the future would become Hot-Jupiter. Understanding of it is the answer that how Hot-Jupiters have formed with other stars.

• Rays of all kinds are materialistic. Materialistic particles curved rays of the star and the planet by their thrust, spin the planet and by the side push provide orbital motion to it. Materialistic particles curved rays from the star on entering into the dense gassy atmosphere of the Hot Jupiter bend towards normal, with the result Hot Jupiter rotates in the reverse direction.

Materialistic particles curved rays of the planet by its reflex action (as stated ahead) intend to make the star orbit around it. Mass of the planet (Hot Jupiter) is negligible as compared to the star thus the planet (Hot Jupiter) itself gets additional orbital move force by its own reflex action.

Hot Jupiter, if it is rotating in the reverse direction it has to counter the normal direction orbital force given by the star. With the result it orbits around the star in slower motion in the reverse direction by reflex action. (Planet Venus is not so strong as the Hot Jupiter thus Venus orbits in the direction as guided by the Sun)

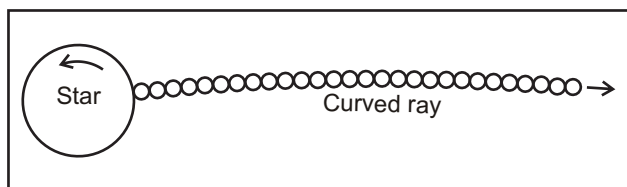
Answer in detail to the above said question is ahead as stated.

Answer in detail to the above said question:

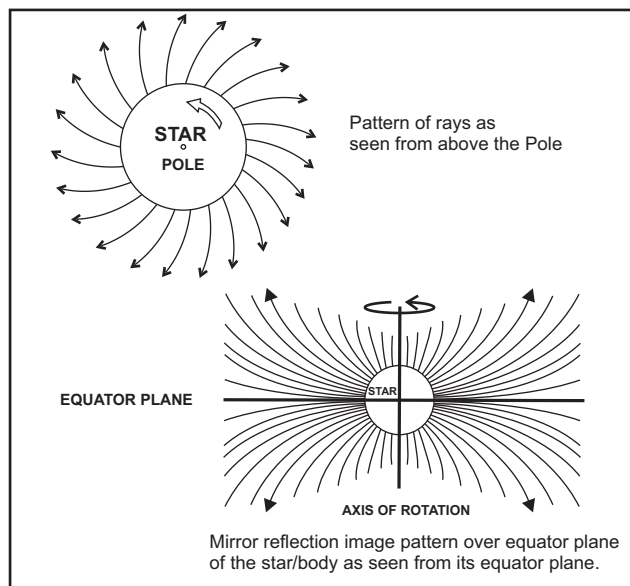
Answer of it lies within the above said Fundamental and that too after knowing ABC of the discovery claim related functioning of the solar system. Below are some of the discovered facts that have been stated before giving answer to the above said question.

1. Universe is Materialistic. Whatsoever we see or can't see in space that all is materialistic.

(a) Propagation of materialistic particles curved rays: Rays of all kinds are materialistic formed of finest form of the matter. A ray is composed of finest form of spherical particles; all spherical particles touching each other to form a row or a ray. Such a ray on its propagation from a rotating body (star) adopts a curved path as shown below.



(b) Mirror reflection image pattern by the materialistic particles curved rays: Materialistic particles curved rays form a specific pattern around the rotating body (star) as shown below



Mirror reflection image pattern over the equatorial plane formed by the materialistic particles curved rays from the star works as a trap zone to keep all the star family over it.

(c) Factors that keep a planet at a distance from the star:

World understands that a planet is away from the Sun/star by the centrifugal force due to its orbital motion speed. In addition to planet's distance from the Sun/star, a planet is at additional distance by the two other factors; (i) Blow or thrust by the Sun/star ejects and (ii) Repulsion by the materialistic particles rays from the Sun/star and also of the planet. Repulsion by the materialistic particles rays is similar to repulsion between the two magnetic bars by their magnetic rays from the similar Poles.

To understand blow of the solar-ejects (solar wind) below is the photograph of the planet Venus taken by the NASA. Solar-ejects by their thrust have stretched atmospheric matter of the Venus to a tail of 45 million KM long (almost near to the Moon).

Satellite catches Venus by the tail

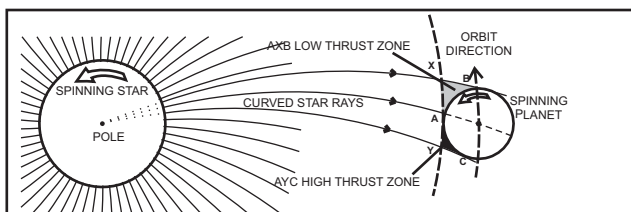


Tail of Venus: credit Jeff Hecht, NewScientist Magazine May 31, 1997.

Solar-wind forms 45 million km long tail with the planet Venus by the blow of solar-ejects and this has been noticed in the year 1997.

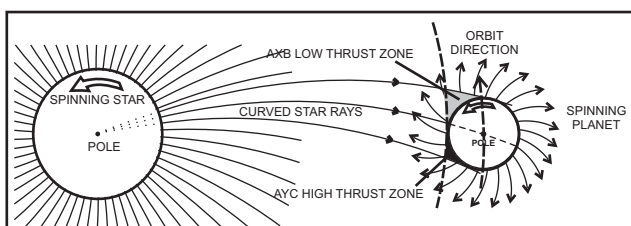
Planet Jupiter by the thrust from radiated and generated materialistic particles curved rays over asteroids has formed Trojans (cluster of asteroids) from the asteroid belt.

(d) Rotation to planet by the star's materialistic particles curved rays: Outgoing materialistic particles curved rays from the star provide guide spin to the planet. Because of the curve to rays, materialistic particles curved rays on hitting the planet put greater thrust over the half part (AC) of the planet than the other part (AB) as shown below; with the result planet spins in the same direction in which the star spins.



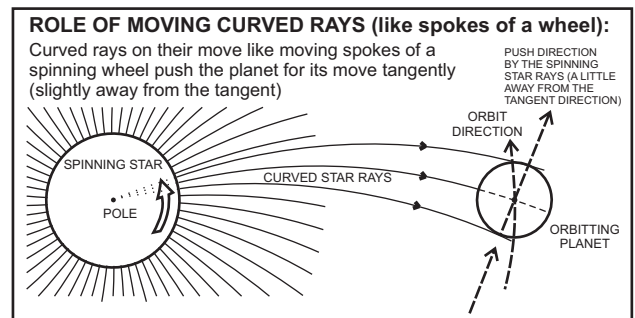
Materialistic particles curved rays of the star spin the Planet by creating thrust difference on half side which is facing the star. It is because of longer distance traveled by the materialistic particles curved star rays to strike the surface of the planet at AB thus become weaker; whereas the planet gets stronger thrust at surface AC.

(e) Rotation to planet by its own materialistic particles curved rays: Every planet radiates and generates its own materialistic particles curved rays. Quantum of outgoing rays varies planet to planet. The said out going materialistic particles curved rays provide additional torque force to spin the planet in the same direction in which the star rays spin the planet to make rotation faster as shown below.

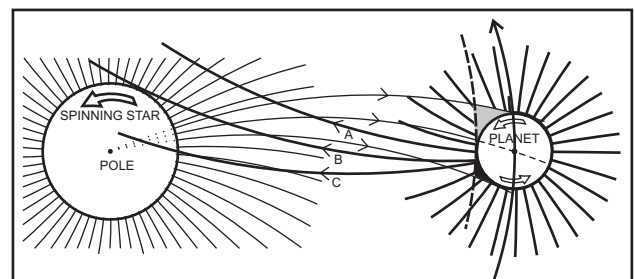


Materialistic particles curved rays of the star provide guide spin to the planet by creating thrust difference on half side which is facing the star. In addition to it planet's own radiated and generated materialistic particle rays spin the planet to give faster rotation.

(f) Orbital motion force to planet by the star's materialistic particles curved rays: Materialistic particles curved rays from a rotating star act like spokes of a rotating wheel formed of finest form of bristles. The said rays provide continuous kick (push) force that provides orbital motion to the planet; gravity keeps the planet in a specific orbit as shown below.

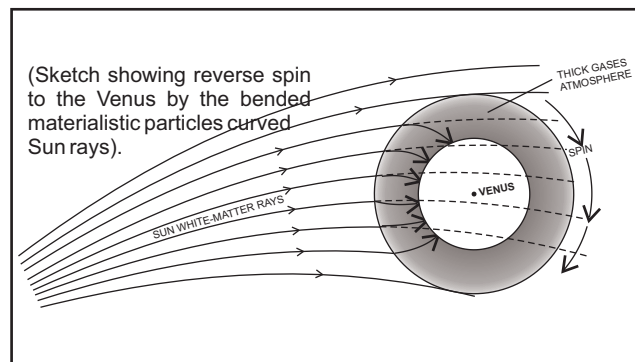


(g) Additional orbital motion force by the planet itself from its own materialistic particles curved rays: Materialistic particles curved rays of the planet though much feeble than the star but planet attempts with its own rays to make the star orbit around it (planet). Mass of the planet is negligible as compared to the star; with the result due to reflex action by its own planet gets additional orbital move force to gain faster orbital speed as shown below.



A few materialistic particles curved rays (A, B and C as shown) of the planet intend to make the star orbit around it (planet) but mass of the planet is negligible as compared to the star thus the planet itself moves faster over its orbital path by the said reflex action.

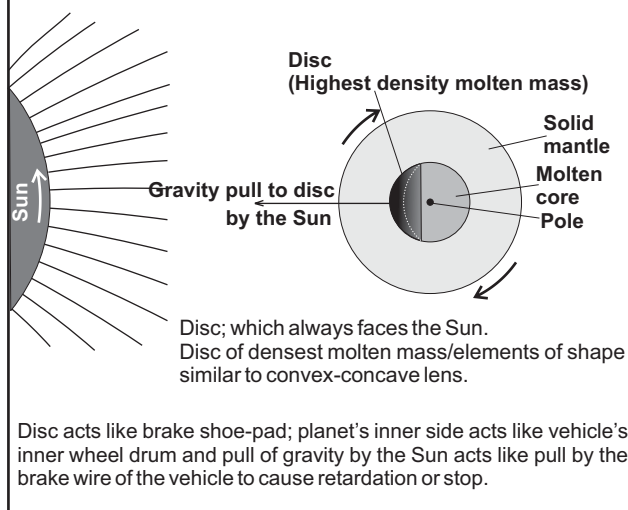
(h) Slow rotation speed of the planet because of its proximity to the star: Planet Venus unveils the secret behind the reverse and slower rotation by some of the Hot Jupiters, which are close to their stars. Planet Venus has not turned up side down by any impact or collision in the past but it is rotating in the reverse direction due to its denser atmosphere, which is 90 times denser than the Earth. On being closer to the Sun; Sun rays enter into the denser atmospheric matter of the Venus and on entering into the denser medium, rays bend towards the normal. Because of the bend to the rays; hitting angle of the materialistic particles rays changes to provide rotation to Venus in the reverse direction as shown below.



Further, Venus rotates very slowly because of another reason in addition to its reverse direction spin by the Sun rays. Molten core of the Venus is composed of elements with various densities. Denser elements among the less denser in the molten core always intend to face the Sun because of high gravity pull by the Sun on being closer to the Sun as shown below.

Sketch of the planet Venus as viewed from its pole:

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

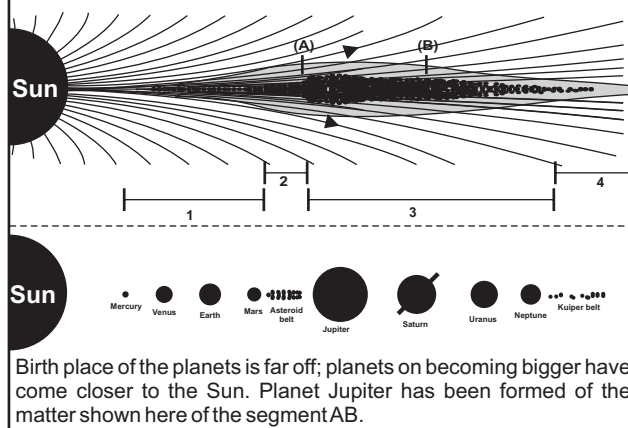


(i) Why is the planet Jupiter biggest of all the planets?

Planets have been formed from the flat rings (or disk) of the matter which once were around the young Sun; like now we notice in space formation of new planets around young stars. (Some left over parts of the said rings/disk matter is now called Asteroid-belt and Kuiper-belt). Materialistic particles curved rays from the Sun form a mirror reflection image pattern over its equatorial plane to trap the matter in the form of disk (or flat rings). Thrust/push by the materialistic particles curved rays of the Sun along with solar-ejects and gravity factor between the Sun and the matter of disk resulted to arrange the matter over the disk by keeping denser and bigger matter nearer to the Sun and lighter and fine particles/dust etc along with gases at the far off the disk. This said arrangement of the matter resulted to make a segment of the disk matter at a specific place with greater mass. All the planets have been formed from the disk of the matter but planet Jupiter formed from the said specific zone of the disk, which had greater mass.

Sketch as viewed from equator plane of the Sun.

Note: End of solar space is far off but because of limited paper space here; solar bodies are shown closer to each other. Segments 1, 2, 3 and 4 are the zones from which planets have been formed. Planet Jupiter has got the opportunity to become the biggest planet as shown over the sketch.



Planet Jupiter has still got the opportunity to grow further bigger because it has huge mass of asteroids in front of it called as Asteroid belt. Recently it has swallowed two asteroids from this belt and in future it would swallow all the Asteroids from asteroid belt and then it would keep an eye over the planet Mars and so on to finally become 'the Hot Jupiter'.

(j) Reason behind faster rotation and faster orbital motion by the solar Jupiter: Planet Jupiter is far off from the Sun and it spins very fast and also orbits faster. Materialistic particles curved rays of the Sun are feeble there but Jupiter on being the biggest planet radiates and generates its own materialistic particles curved rays in great quantum. Its own radiated and generated rays provides it faster spin and faster orbital motion by its reflex action as stated above.

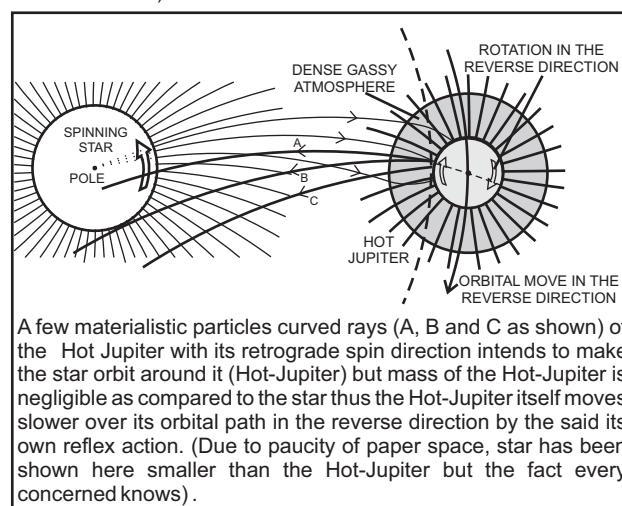
2. Hot-Jupiters

(a) Reason behind reverse spin by the Hot-Jupiters: Now, we have come closer to the answer that why most Hot Jupiters rotate in the reverse. Its answer is the same as given over the reverse spin direction of the planet Venus. Venus rotates slowly. By the same/similar reason Hot Jupiters nearer to the star that are rotating in the reverse would be rotating slowly.

(b) Reason behind reverse orbital motion by the Hot-Jupiter which rotates in the reverse direction: The reason behind it is the reflex action by the rays of the planet as stated above. To have the proper answer, we have to go a little further ahead to know that how Hot-Jupiters are formed?

Factors behind formation of Hot-Jupiter: Solar system's Jupiter would also become Hot Jupiter after billion of years and by then Sun would become some what weaker. Jupiter has recently swallowed two asteroids from the Asteroid belt; the said process would not stop. One day Jupiter would vanish asteroids by swallowing gradually all the asteroids and then would move closer to the Mars by its enhanced gravity. After swallowing the Mars; it would swallow almost all the planets to become Hot Jupiter. It would gain strength to challenge the weakening Sun. In the due course Sun rays on entering into the denser atmosphere formed over the Hot-Jupiter would flip its rotation direction in the reverse like of the Venus.

On getting the reverse rotation direction newly formed or converted Hot-Jupiter with its strong materialistic particles curved rays would attempt to force the fading/weakening Sun to orbit around it. Mass of the weakening Sun would still be much greater than the formed Hot Jupiter; in its attempt to do so because of its reverse spin direction, formed Hot-Jupiter had to change its orbital direction in the reverse as shown below. (Hot-Jupiter on its reversal orbital motion at its stop would not plunge into the star by the reason as stated ahead).



Like slow rotation speed of the Hot-Jupiter (understood from the Venus), orbital speed of Hot Jupiter would also be slower because it has to orbit by its own materialistic particles curved rays due to its reflex action by countering (opposing) the orbital force direction provided by the rays from the star.

Hot-Jupiter, which has rotation direction in the rotation direction of the star; orbits faster. But after change to its rotation direction on closer approach to the star, its orbital motion speed reduces. And reverse spinning Hot-Jupiter on going further closer to the star after a brief halt may reverse its orbital direction too.

(c) Hot Jupiter on its reversal orbital motion at its stop would not plunge into the star by the loss of centrifugal force due to the reason as stated below: Any planet which is rotating in the reverse direction is not born like this; it has reversed the spin direction later on its approach nearer to the Sun/star by having a stop to its spin. Similarly not even one Hot Jupiter is born with the reverse orbital direction move; it has changed the orbital direction later after a brief stop over on approach nearer to the star. A planet or a Hot Jupiter can reverse its orbital direction only by attaining high generating capacity of its own materialistic particle rays.

During the flip/reversal of orbital direction from normal orbital move, Hot-Jupiter would have a brief stop. At its stop over, it would not plunge into the star by the gravity attraction because of loss of centrifugal force. But it would stay at a distance from the star and the distance would be lesser than when the Hot-Jupiter was orbiting. Repulsion by the very strong materialistic particles curved rays of the both; star and the Hot-Jupiter would keep them at distance (like magnetic rays from the similar Poles keep two magnetic bars at distance). On restoring reversal orbital motion, Hot Jupiter would widen its orbital distance from the star as per the orbital speed attained.

(d) Atmospheric matter circulation over the planet due to the outgoing materialistic particles curved rays may mislead rotation direction of the solid mass inside the Hot-Jupiter: Mirror reflection image pattern formed over the equatorial plane of the planet (like formed over the Sun) due to the outgoing radiated and generated materialistic particles curved rays from a gassy planet give circulation to its atmospheric matter in the said pattern, which is similar to as understood by the Scientists for air circulation over the Earth under Hadley cell.

Any Hot-Jupiter rotating in the same direction as that of its star cannot reverse its orbital direction move nor can have reverse orbital direction from its birth. Solid or molten matter core of the planet Hot-Jupiter is deep inside under the thick gassy shell. It might be possible that a Hot-Jupiter would be orbiting in the reverse direction but its outer gassy shell have the circular direction similar to normal rotation of a planet and that might mislead the Scientists that the Hot-Jupiter is rotating in the direction of the star but its orbiting in the reverse direction. Chances of misleading are there because existence of Hot-Jupiters are far off thus can't be seen or noticed for their rotation easily and correctly.

Conclusion:

With the correct knowledge over the basics related to Astronomy, states of the matter and rays; it is very easy to understand working mechanism of any celestial body. Because of planet's denser atmospheric medium and proximity of the planet to star; it is the materialistic particles curved rays of the star and of the mammoth planet (Hot Jupiter), which are responsible for the said phenomena (reverse spin direction and reverse orbital motion).

World challenged over the wrong knowledge by discovery claim (2007)

Discoverer and challenger: Ramesh Varma (India)
E-mail: ramesh_varma@newtonugeam.com
Website: www.newtonugeam.com