

# Formation of Planet Uranus

C. Prabhakar

**Abstract**— The some planet formation in our solar system are Peculiar in nature, particularly when some motions are different from the most of the rest, which needs separate explanation. The Uranus is the one such. There are around eight planets which are orbiting around our solar system. . The Sun and most of the planets in the solar system rotate in a counter clockwise direction, when viewed from above their north poles; this direction is called direct., Uranus, however, rotates in the plane of the revolution of the sun. Observer would see the Uranus north and south pole, where the other planets equator lies. This peculiar arrangement can be explained by the way it formed from its parent Sun. All the planets other than Uranus and Pluto would have formed from the Sun by separation at the equatorial plane with high velocity of masses spurting from the Sun. But, in case of Uranus and Pluto, the separation would have been from the oblique plane. The masses spurting out would have been in curly spiral motion finally resulting in motion at more than 90 deg in the plane of the revolution of the Sun. Here we attempted to solve the above peculiar phenomena by imagining its different way of formation. The myth might get solved over its peculiar rotation characteristics.

**Index Terms**— Uranus, Pluto, Planet, spin velocity and massive central Sun

## I. INTRODUCTION

The Planet Uranus is Seventh planet from the Sun and third largest planet in the solar system. It is puzzle for many over its direction of rotation, which is in plane with the plane of revolution of the Sun. Explanation was not given, which clearly explains this peculiar motion.

## II. HISTORY

The Planet Uranus observed through skies using telescope. It is ice giant. It was discovered in 1781. Uranus has not been observed for long time. It was considered as star by some Astronomers, till it was confirmed as a Planet.

## III. PROPOSED METHOD FOR PLANET URANUS FORMATION

The Uranus is seventh planet from the Sun. If other planets are rotating in a plane perpendicular to ecliptic, the Uranus is rotating in a plane parallel to the ecliptic, which was assumed to be due collision with other heavenly bodies, may be wrong. If it is true, then revolving orbit around the Sun would have not been possible as it exists on today. Here, we will see the sketches of planet formation of Uranus, which differs from rest of the Planets the figure 1 shows Planet Uranus formation. We can see the difference. Here, the separation is at oblique plane unlike other planets which was from equatorial plane of the Parent Sun. These types of formation of Uranus clearly explain why the Uranus rotates in a plane more or less parallel

to the ecliptic contrary to other planets rotation. It is mainly because unlike other planets, instead of chunk of masses thrown at the equatorial plane with full momentum away from the central massive Sun, chunk of masses thrown at the oblique plane and subsequent twisted and spiral motion, which contains the horizontal and vertical components of the velocities including the components of angular velocities makes its rotation axis become parallel to the ecliptic and enters into the orbit around the Sun as shown in figure 1.

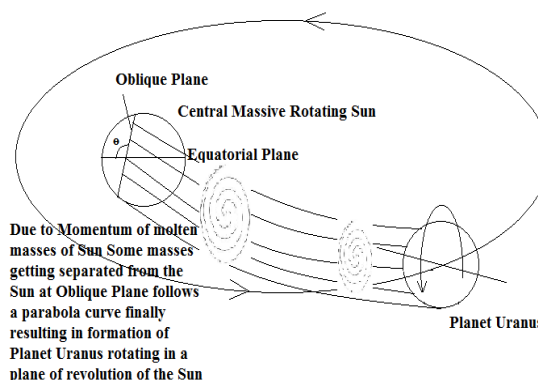


Figure 1 The Uranus formed by Ejecting or thrown from the central rotating massive sun at oblique plane, with high velocity finally resulting in formation of planet with rotation and revolution motion.

Magnetic field does not originate from its geometric axis and it is tilted at  $59^\circ$  from the axis of rotation. Magnetic axis may be the original inclination of Uranus during its separation from the parent Sun, later on further it inclination gets settled also called as geometric axis, according to its moons formation, who changes this inclination depending upon the number of moon formed and corresponding directions it has taken from its parent planet. Hence, the magnetic and geometric axis does not aligned in the same axis. Since, it is the molten liquid inside the planet gives the magnetic field. So, we can consider even for other planets, the angle of magnetic axis gives the angle at which the planet formed or separated from the parent star Sun. Geometric axis gives the inclination after the formation of its moons. We can observe the geometric axis and magnetic axis in most of the planets are not the same. This same can be explained due to the its natural satellite or moon formation from the respective planets, which leaves the parent planet inclined till it gets settled in the final geometric axis, the liquid inside the plane remaining aligned in the same original direction.

## IV. THE OBSERVATIONAL FACTS SUPPORTING ABOVE THEORY

The above theory supports both the observational facts of planets rotation in a plane parallel to the revolution of the Sun

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Prabhakar C B.E.(Mech) DCA is a Mechanical Engineer Now, working independently on various topics of science and technology.

and also why the magnetic axis being different to its rotational geometric axis. Also, it explains its moons formation from the parent Uranus.

### V. CONCLUSION

Hence, we can conclude that Uranus formed in a different way than the rest of the Planets. This process of formation can be extended to other Planets whose rotational direction is in a plane of revolution of the Sun such as Pluto. It clearly explains, the different rotation motion comparing it to rest of the Planets rotational direction.

### REFERENCES

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#### Authors Profile:



**Prabhakar C.,** B.E., (Mech) DCA is a Mechanical Engineer Now, working independently on various topics of science and technology.

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