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THE SUN AND ITS FAMILY MEMBERS ALTOGETHER TRAVEL IN THE UNIVERSE IN A ROPE PATH

Mr. Nrusingh Charan Mohapatra

ABSTRACT: Every satellite moves around its planet in a spiral path and every planet moves around its star in a spiral path. Every star with its planets and satellites altogether move around their galaxy in a rope path.

KEYWORDS : Star, planet, satellite, spiral path, rope path, galaxy.

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SUBJECT MATTER

The universe consists of billions of galaxies. Every galaxy consists of crores of stars, planets, satellites, comets, meteoroids, asteroids and many other celestial bodies. Each star has a family of planets and satellites.

Doppler Effect states that the galaxies are moving away from one another. When any celestial body moves away from us the frequency of the light emitted by it decreases and shifts towards the red end of the visible spectrum which is called as the red shift. Scientist E. Hubble observed the red shift in the spectrum of light coming far from galaxies. This proves that galaxies are moving away from one another. As every galaxy consists of stars, so stars are moving around their respective galaxies .Sun is a star of a galaxy. So sun is moving around its galaxy. The sun is rotating on its own axis and revolving around its galaxy in every **225** million years. The sun is located at a distance of 30 thousand light years away from the centre of its galaxy. 1 year = **8766** hours = **8766*3600** seconds. Light travels in **$3*10^5$kms** per second. So light travels **$3*10^5*8766*3600$kms = $946728 * 10^7$kms** in 1 year. **$946728 * 10^7$kms** = 1 light years.

The radius of revolution of the sun is 30 thousand light years = R = **$30 * 10^3$** Light years = **$946728 * 30 * 10^3 * 10^7$kms = $2840184 * 10^{11}$ kms.**

The revolution path of the sun around its galaxy = **$2\pi R = 178525851 * 10^{10}$kms**. Sun takes **$225 * 10^6$** years to revolve **$178525851 * 10^{10}$ kms** around its galaxy. So sun revolves **7934482270 kms** in 1 year around its galaxy.

CASE – I

An elliptical path is a closed path, where the beginning and the end of the revolution path of one year of the earth coincide each other, if the centre of the revolution path of the earth is stationary. As the sun travels **7934482270 kms** in a year around its galaxy and the sun is the centre of the revolution path of the earth, which is dynamic, so the beginning and the end of the revolution path of the earth will be at a distance 7934482270kms. This implies that the revolution path of the earth is not closed hence it is not an elliptical path.

CASE – II

The elliptical path is a closed path, which is not uniformly curved.

The earth moves in a high constant speed of **$3 * 10^4$m/sec** around the sun. A body can move with a high constant speed on a

uniformly curved path. So if the earth will move with a high constant speed on a non-uniformly curved path, then the earth will go outside of the elliptical path.According to the curvedness, the speed of the vehicle is adjusted so as to move on the curved path. The earth is a matter, so it can not increase or decrease its speed according to the degree of curving as it has a constant speed of **3 * 10^4m/sec**. The speed of the moving body is inversely proportional to the degree of curving to move on a curved path. Hence the revolution path of the earth is not an elliptical path.

CASE – III

The earth moves in **3*10^4m/sec** speed around the sun. The degree of inclination towards the centre of the revolution of the earth is directly proportional to the curving of the path. If the revolution path of the earth will be an elliptical path, then the earth will not always incline with an angle of **23 1/2^0 towards** the sun. The inclination of the earth towards the sun is more than **23 1/2^0** at the vertices of the major axis and less than **23 1/2^0** at the vertices of the minor axis of the elliptical path. Since the earth always inclines with an angle of **23 1/2^0** towards the sun in its constant motion, so the earth is not revolving around the sun in an elliptical path.

CASE – IV

The earth revolves around the sun in a tremendous speed of **3 * 10^4m/sec**. In this situation, if the revolution path of the earth will be an elliptical path then a fixed pole of it will always Incline towards the sun. So one Pole will always face the sun and another Pole will be far away from the sun. As a result one Pole will always experience summer season and another Pole will always experience winter season. But every pole of the earth experiences one season after another in a cyclic order. So the earth is not revolving around the sun in an elliptical path.

CASE – V

The sun has a fixed force of attraction on the earth. When the sun is at the centre of the elliptical path and the earth is on one of the vertices of the major axis then the distance between the sun and the earth is more, again when the earth is on one of the vertices of the minor axis and the sun is at the centre of the elliptical path then the distance between the sun and the earth is less. So when the earth is at one of the vertices of the minor axis and the sun is at the centre of the elliptical path then sun requires less force of attraction and when the earth is at one of the vertices of major axis and the sun is at the centre of the elliptical path then the sun requires more force of attraction to keep the earth on the elliptical path. How can sun exhibit more and less force of attraction on the same earth? So earth cannot revolve on an elliptical path around the sun, as the force of attraction of the sun can not vary.

SPIRAL PATH

The sun is the centre of the revolution path of the earth, which moves **7934482270kms** per year, simultaneously the earth moves **942857143 kms** in one year. So if the revolution path of the earth around the sun is plotted in three dimensional space, where the earth and the sun both are dynamic then the revolution path of the earth will be a spiral path. Every planet of the sun revolves around it in a spiral path and every satellite revolves around its planet in a spiral path. Every star revolves around its galaxy in a spiral path.

ROPE PATH

When the cotton fibers are spun, they form a strong thread due to the spinning energy.

Two long threads, when they are kept together they do not attract each other, but when each one of them is spun and kept together then they are twisted each other and form a rope. For this reason a rotated spiral path of a satellite is twisted with the rotated spiral path of a planet. The twisted spiral paths of the planets and the satellites are twisted again with the rotated spiral path of their star, which altogether make a rope path .Every star and its family members altogether revolve around their galaxy in a rope path. Similarly the sun and its family members altogether revolve around their galaxy in a rope path as the sun is a star. Due to the rotational energy of a celestial body, it revolves around the rotational energy of another celestial body, as a spun thread twists another spun thread. Every galaxy moves in the universe in a rope path, that is why they live together.

Between any two celestial bodies there is a place where the force of attraction of them is zero. So a body floats between the two celestial bodies. Every celestial body has its gravitational field. When one celestial body enters the gravitational field of another celestial body then there is a force of attraction between them. A tree is alive so it bends towards the sun to get heat and light from it. Similarly the earth revolves around the sun to get light and heat from it as the earth is alive.

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