

UPDATING KEPLER'S FIRST AND SECOND LAWS

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ABSTRACT

Although Johans Kepler 1571 – 1630, was one of the most important scientists who began the scientific revolution in the struggle of humanity against the underdevelopment imposed by the Church on all aspects of life, including science, by announcing his three laws of planetary motion, Kepler believed that the sun is the center of the universe such as Copernicus which caused his full inability to recognize the effect of the centripetal force resulting by the gravity of the center of the galaxy which pulls the Sun toward its orbit. and his inability to recognize the cause behind the elliptical shape of the orbits, and then falled in contradiction when drafting the second law, that a straight line between the planet and the Sun sweeps equal areas in equal intervals of time and the planet accelerates as it approaches to the Sun and decelerate as it get far of it, where in this study we proved that the planet in equal intervals of time sweeps unequal areas and that it get faster in apheluin and slower in the perihelion.

KEYWORDS: Orbit, planet, Earth, fall, Vernal, Equinox, Solstices, Area, Arc, Seasons, Elliptical, Circular, Acceleration, Deceleration, Centrifugation