

Studies in Eudoxus homocentric spheres

Societas Scientiarum Fennica - Eudoxus

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Studies in Eudoxus' homocentric spheres (Book, 1974) [play.fridaynightfunk.rf.gd]

We know that Eudoxus studied the classical problem of the duplication of the cube. But in addition the blue sphere turns slowly in the opposite direction, about a tilted axis. Round the axis of the fourth sphere the rotation of the latter took place in the same period, but in a direction opposite to that of the third sphere.

ΑΡΧΑΙΑ ΕΛΛΗΝΙΚΑ ΜΑΘΗΜΑΤΙΚΑ: The homocentric spheres of eudoxus

The so-called papyrus of Eudoxus, to which we have already referred, gives us the values adopted by Kalippus for the lengths of the seasons taken from the Parapegma, or meteorological calendar of Geminus, and though only given in whole numbers of days 95, 92, 89, 90, beginning with the vernal equinox, the values are in every case less than a day in error, while the corresponding values determined by Euktemon about B. Therefore it is not surprising that he developed a system based on spheres following 's belief that the sphere was the most perfect shape. A number of authors have discussed the ideas of real numbers in the work of Eudoxus and compared his ideas with those of, in particular the definition involving ' cuts' given in 1872.

homocentric spheres

The became the basis of Book V of.

homocentric spheres

And even this violation of the rule would be of no use, since Mars in that case would reach latitudes greater than 30°, and Eudoxus was doubtless not willing to accept this. Its axis of rotation is horizontal and in the plane of the diagram. During this motion the longitudinal axis of the lemniscate always coincides with the ecliptic, along which the curve is carried with uniform velocity.

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His contemporaries seemed to admire Eudoxus for his but, given the views he was spouting, they should have reviled him on the same account.

Homocentric Sphere Model

It then demonstrates the radical originality, relative to this theory, of the definition of real numbers on the basis of the set of rationals proposed by.

Homocentric Sphere Model

Every celestial body was supposed to be situated on the equator of a sphere which revolves with uniform speed round its two poles. Of course, we now know that this is caused by the fact that we are observing the planets from the Earth, which is itself moving, but before people figured that out, they accounted for it by giving the planets complicated combinations of motions of their own. For these two planets Eudoxus had thus found an excellent solution of the problem proposed by Plato, even supposing that he knew accurately the lengths of the retrograde arcs.

Eudoxus

To produce observed motions in latitude, Eudoxus added third spheres for each planet. It carries the inner sphere around with it, while the inner sphere itself rotates in the opposite direction about its own axis the black lines. In the case of the Moon, apparent changes in size due to changing distance from observers on the Earth were observed directly by the Greeks.

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