

HERETICAL PHYSICS VIII – ORBITS an AETHER SOLUTION

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ABSTRACT

Following on from HERETICAL PHYSICS II, in which the concept of planetary orbits being the resultant creation, by the geometry of two circles. Here expanded to two “Aether” spheres. The second sphere is an Aether Carrier Sphere (A.C.S.) shown at various locations; here for Earth as the working example. Some support for Einstein’s idea of CURVED SPACE – (A field of charge?) and an explanation of the geometry for the Milankovitch cycles as they affect Earth’s axis is included.

INTRODUCTION

Cambridge University Press ‘ON SPACE AND TIME’ 2008

“...structure at both the smallest pre-subatomic and the largest levels continues to defy modern physics and may require revolutionary new ideas for which science is still grasping...” Majid.

Note all planets in the Solar System are speeding, in parallel, through ‘SPACE’ at 370km/s [Cox] here we will label this the ‘Z’ direction being the orbit around the Galaxy.

Also planetary orbits, according to the arithmetic applied, must be equipped with acceleration-deceleration devices and side thrusters so that there is a continual variation in speed (ds/dt) to create the non-uniform speed in the resultant X/Y plane and therefore become elliptical (SUN) orbits, around the (X/Y) axis. Such devices have never been observed? Side thrusters are required to disturb the ‘Z’ K.E. motion of 390+/-60km/s and thereby create the (X/Y) plane and so to form Newton’s innate tangential vector.

Attention is drawn to the “circus motor cycle in the sphere trick”; where a rider rides around a spherical wire cage starting slowly at the bottom, then by increasing speed, arrives horizontally around the ‘equator of a suspended sphere in which the bottom is hinged open to invite death? At all times the wheels are assumed, at the point of contact, to be a right angle to the spherical tangent.

Applying some relativity;

(A) The sphere could be spun in reverse by the same angular momentum and maintain the rider suspended in a fixed location, apparently no longer circulating.

(B) The sphere could be spun at angular momentum and the motor cycle engine stopped. In which event, the wheels would be rotating but the rider suspending at a fixed location?
i.e. action of a centrifuge, or a washing machine spin drier.

With this justification and the prolific works of four authors, the following derived evidence is extrapolated from their papers in the form of spherical “Aether Carrier Spheres” (A.C.S.) :- Aspden, Evert, Kanarev and Mathis seem to have a common thread in widely separate publications. Aspden whose aether inspired T.O.E. (in effect making Hawking’s prediction come true) says electrons exhibit a high frequency by recycling aether energy.

Kanarev has written a paper on the atomic theory behind the SUN and concluded that atomic theory requires it to be totally consumed and can no longer exist. Therefore SUN must exist by recycling aether energy; Aspden and Mathis offer similar opinions.

Mathis says atomic structures of 'Elements' are based on energy recycling. Also stars and planets recycle Aether charge (from Space?) through their poles and expel through the equatorial regions, with repulsion into the SPACE [creating compressive stress? Author].

Evert goes a bit further and says there is no mass matter whatsoever and all apparent structures are "Aether energy lumps?"

Aspden claims 'The Aether' is assembled from basic cubes and a number of these are required to assemble an Electron. Aspden develops a T.O.E. from associated Quantum theory. Based on the prior work of J.M. Jeans and the findings of Aether drag, also Dirac's "Aether Sea of energy". Aspden further develops this "Sea of Energy" to show how 'The Aether' sheds energy to create "matter" as we define it to create our Universe. While Evert theorises how "energy quanta" behave as energy assemblies, currently classified as mass.

In summary Aether is the Energy source continuously recycled through frictionless Space.

"... a sphere of something having a mass density can spin about a central axis and not disturb enveloping Aether..." [Aspden]

MODERN

Aspden, starting from structure of quantum particles, has derived mathematically, the range of 'Constants' used in Quantum Theory, including the 'Graviton' in his 'Theory of Everything (T.O.E.)' published 1997. Whereby he maintained the current expenditure of billions of taxpayer funds by Physicists for an alternative T.O.E. is not warranted and structures such as C.E.R.N. are superfluous.

Based on a common thread of 'Aether Energy' within the ideas generated by these four Authors; HERETICAL PHYSICS papers have some foundation!

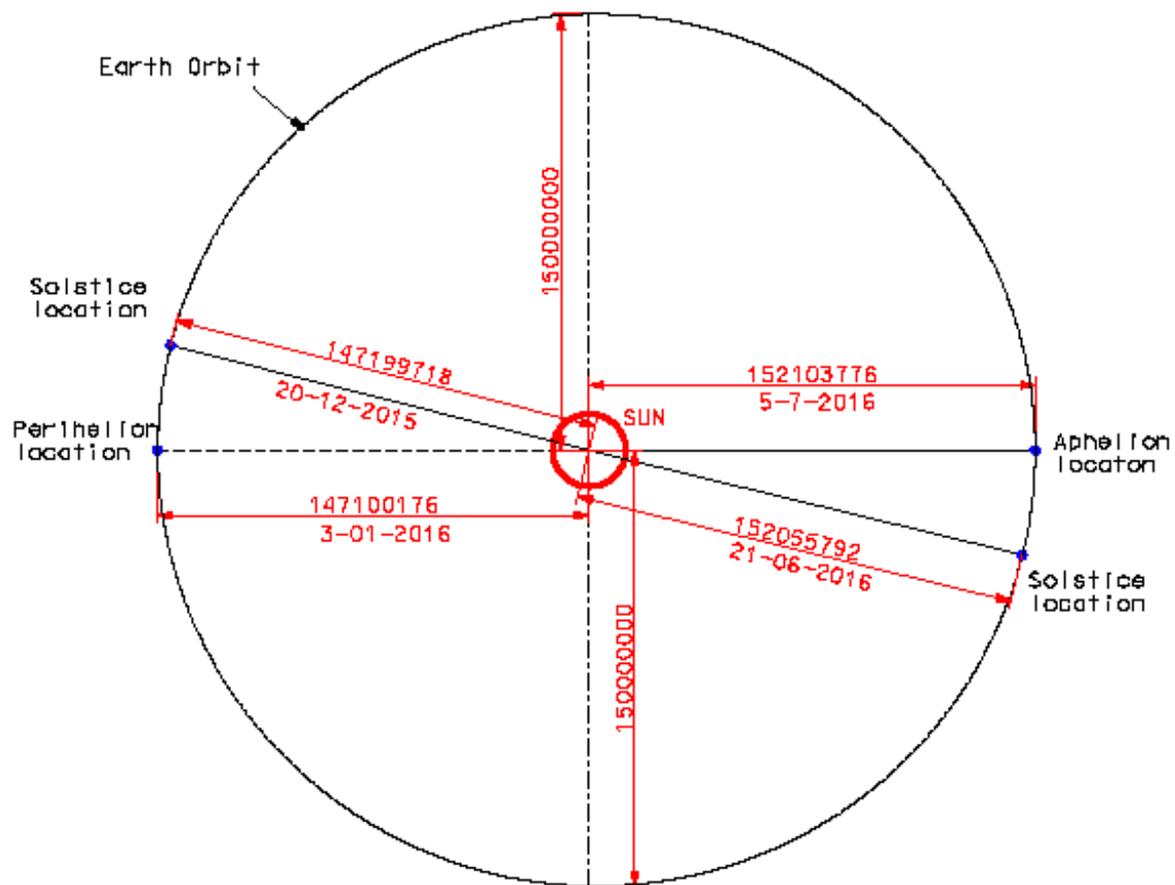
Evert claims planets are moved through SPACE by surfing on an energy wave as stress and deformations in the basic building blocks and the Aether transfers energy, as a sort of 'bucket brigade' by passing on deformation. Normally the Aether is solid and stationery with basic building blocks having internal particle energy [Aspden].

The nearest physical description is the wave motion around the periphery of a jelly fish [Evert].

At this juncture the introduction of gyroscopic physical behavior is introduced, a behavior which can be harnessed but not in the least understood as to why it operates. Basically a spinning wheel will endeavor to maintain its axis pointing to a fixed location in 'SPACE'. In 'Engineering' applications it would be preferable to install large spinning masses parallel to the Earth axis and thereby utilizing the Earth gyro stability to reduce machine stresses. Conversely spinning masses with the rotor axis mounted radially to the Earth centre will have increasing gyro stresses to contend with.

FIGURE 1

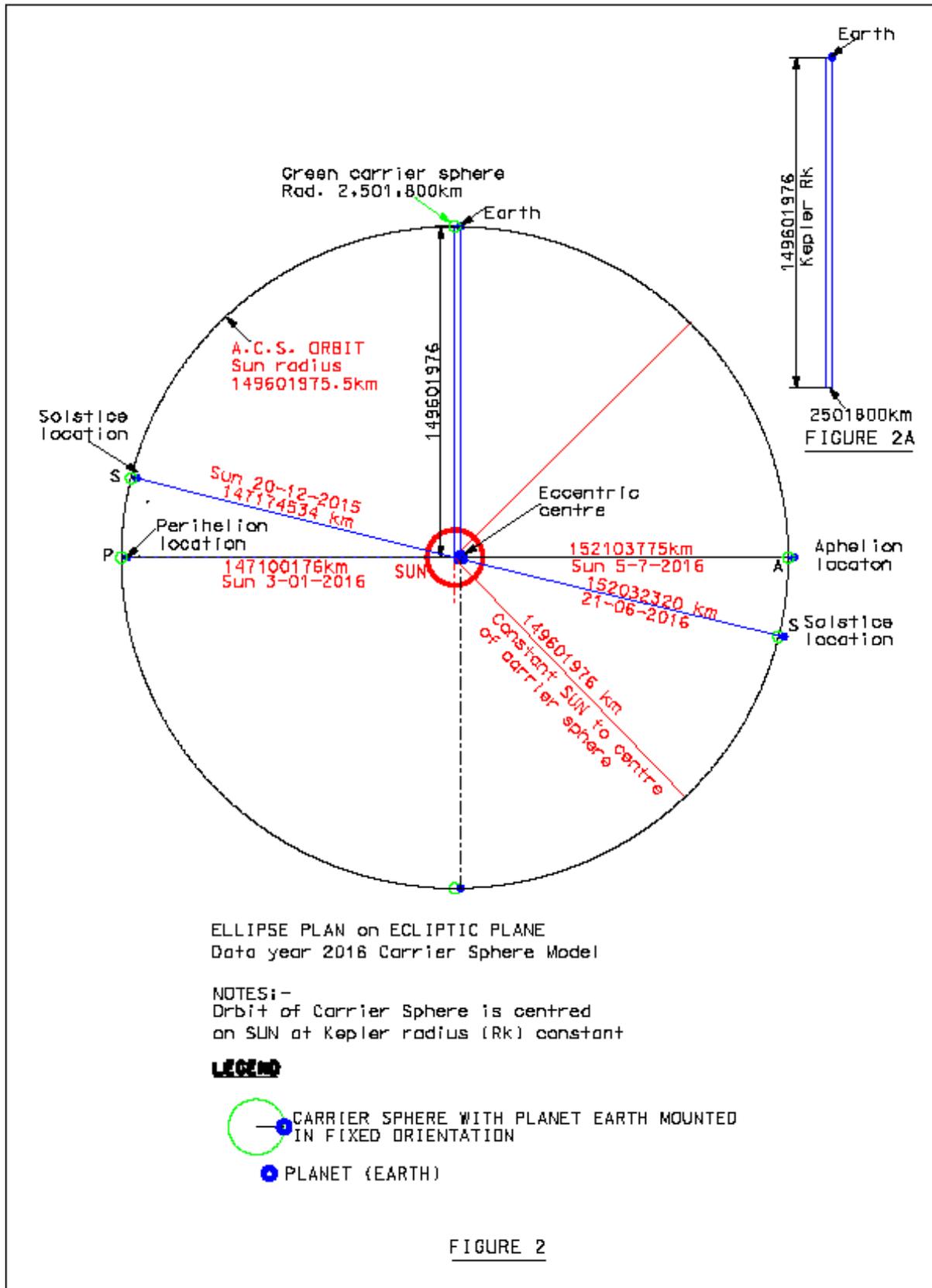
The Physicists 'Standard Model' Fig.1 for planetary elliptical orbits, illustrated with the Earth orbit data. As shown data refers to year 2016 and is a graphics plot of Earth's orbit according to this "Standard Model" theory. Note SUN diameter is not to scale. This theory requires orbits to have continually varying (ds/dt) orbital accelerations, without apparent cause? Throughout the orbit. Apparently never measured but derived mathematically, based on Newton's interpretation.



ELLIPSE PLAN on ECLIPTIC PLANE
 Data year 2016 Standard Model

FIGURE 1

FIGURE 2



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A graphical construction explaining Figure 1 data based on the interaction of two spheres; the smaller, the carrier sphere (green) with the planet (Earth) mounted on the inner surface. This smaller sphere (A.C.S.) spirals around the larger SUN sphere. The larger SUN sphere (A.S.) has the radius of perihelion value. The centre of the A.C.S. green circle, is at the Kepler radius from the Sun centre. The diameter of the carrier **circle** green sphere (A.C.S.) is the difference between Aphelion value and perihelion value (Earth green **circle** = 5,003,600km). Blue circle represents model Earth mounted within A.C.S.

Also note there is a variation of the Solstice distances between the S.M. and the A.C.S. model.

Figure 2A is reproduced from Figure 2, to draw attention to the operation of a 'parallelogram', that is lengths of four sides remain constant during one orbit around the SUN. At Figure 2A the four lines form a rectangle half way between Aphelion and Perihelion.

This speculation needs some form of repulsive energy masses that require structure and the scenario could be explained by our electrical knowledge;-

Evert defines magnetism as a form of energy tube in which Aether energy spins in spiraling format South to North, creating a bar magnet. This can be assisted with a magnetic substance core. If we follow this idea, each A.S. has such a tube at its core. The postulate can be extended to behavior of binary stars. Attracted by this core tube of magnetism until the A.S. voltage-charge surfaces come into contact but remain separated by their repulsive charge pressure, since the N and S poles are in reverse.

Prof. Kanarev suggests a similar magnetic mechanism for the bonding of protons and electrons.

Figures 3, 4, and 5

In the case of Earth the orbit circle diameter mounted within the A.C.S. is averaged at 5,000,000km. From above figure circle Dia.=5,003,599km; contained within the (A.C.S.) with a fixed gyro orientation with reference to SPACE and the ecliptic plane and to simplify an initial explanation, does not spin as the A.C.S. precesses around the perihelion sphere. The orbit (black line) passes through the centre (green circle) of each planetary A.C.S. at a constant radius (Kepler's radius). In this scenario, planets appear to be 'limpets' attached at a fixed location to their (A.C.S.) inner surface and are carried in the A.C.S. orbit, within the A.C.S. in a fixed location. The A.C.S. speeds at constant orbital velocity (ds/dt is constant). The constant radius of the A.C.S. is measured from the SUN. That is A.C.S. orbits are circular around the SUN but planets are now located eccentric to the SUN and a nett eccentric orbit. In this construction all rotations are constant angular velocities. In the Standard Model of elliptical orbits, planets undergo continual orbital speed adjustments to "...sweep out equal areas in equal times..." or as explained in orbital mathematics; ds/dt is the variable. So without "some? Engine thrusts" these orbital velocity variations or a physical explanation, other than postulates from mathematics, how possible?

Figs 3, 4, and 5 are depictions of the standard data from current observations but now fitted to two spheres. This idea follows from Aspden :-

"...This means that Earth exhibits its geomagnetism because a uniformly dense sphere of aether charge rotates with its body and the same amount of aether charge of opposite polarity rotates in the same sense in ionosphere regions. The Earth's magnetic poles migrate around the geographic poles, the latter is surely an aether phenomenon involving precession owing to magnetic interaction of two rotating aether systems..."

The following discussion is based around depiction of orbits in 3D. A “plan” view, Fig. 3, of the ecliptic and a section, Fig. 4. Showing the innate speed of the ecliptic plane at 370km/s. Now we add the “motor cycle sphere evidence” the green sphere, as the planetary transport sphere.

Part of ecliptic plan Fig. 3 is reproduced to generate sections across ecliptic to derive figure 4. This section through the A.S.C. illustrates Earth axis (as the motor cycle wheel axle) where the axis/axle becomes a tangent to carrier sphere A.C.S. but is mounted internally. Published data defines the tangent has a the max. value (24.5°) to the Ecliptic, at one extremity of the orbit circular plane (aver. 5,000,000km), this plane in turn is inclined at 1.2° to the Ecliptic. Also requiring the central A.C.S. axis to be inclined at 88.8° to the Ecliptic. Now the A.C.S. can vary the tangent angle to the Ecliptic by 2.4°. Tangent of Earth spin is constant relative to the A.C.S. axis. Gyroscopic orientation is maintained as A.S.C. precesses around SUN during one year, maintaining axis constant with respect to SPACE. However it does undergo a single revolution of gyroscopic spin during this one Earth year orbit, imparting spin energy to Earth via ‘charge’ interaction.

WEB data notes there is a change in relative position, in that the Earth is leading the ecliptic at Aphelion and drops behind at Perihelion. Shown as Figure 5, requiring that the A.C.S. needs to have some small angle of orbit to the ecliptic during this one year precession as it spirals along the Galaxy track. The illustration of the relative locations between SUN and Earth adjacent to the Ecliptic plane, showing leading and lagging locations FIGURES 4 & 5. Hugely exaggerated

MILANKOVITCH CYCLES

The Standard Model (S.M.) does not have an explanation for the published data, other than to admit “... they are not clearly understood...” or could this mean ‘We have not the foggiest clue?’.

This leaves the questions wide open for answers. Here the A.C.S. postulate does have some merit in geometry. This a physical understanding only. Earth has a low value for eccentricity, making true scale diagrams impossible to display. The following discussion will describe the operation and rely on some arithmetic to achieve the explanation and results.

Two weeks orbital delay (an approx. number) between Solstice and Perihelion;-Angle Sun to Earth equator;

$$(11\text{weeks}/13\text{weeks}) \times 23.44^\circ = 19.83^\circ \text{ lat.}$$

$$\text{Earth rad.} = 6,378.1\text{km}$$

$$\text{Lagging Arc movement } 3.61^\circ$$

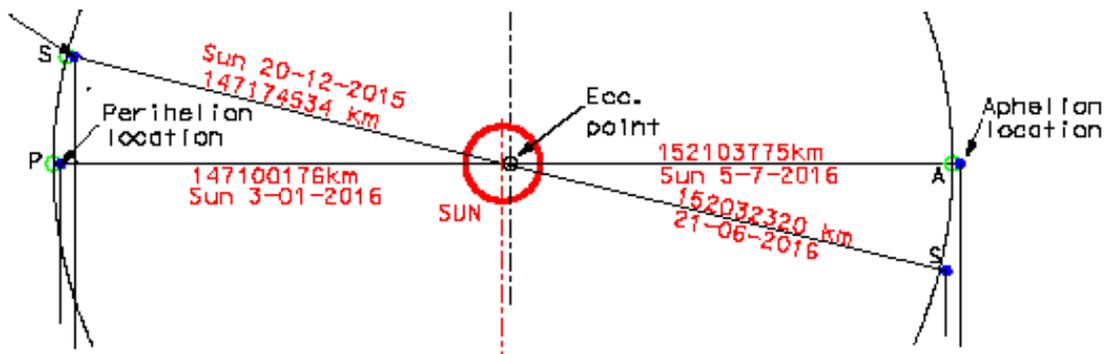
$$\text{Length of } 90^\circ \text{ arc} = 0.25 \times 2\pi \times 6378.1\text{km} = 10,087\text{km}$$

$$\text{Length of lagging SUN arc approx. } 3.61^\circ/90^\circ \times 10,078 = 402\text{km}$$

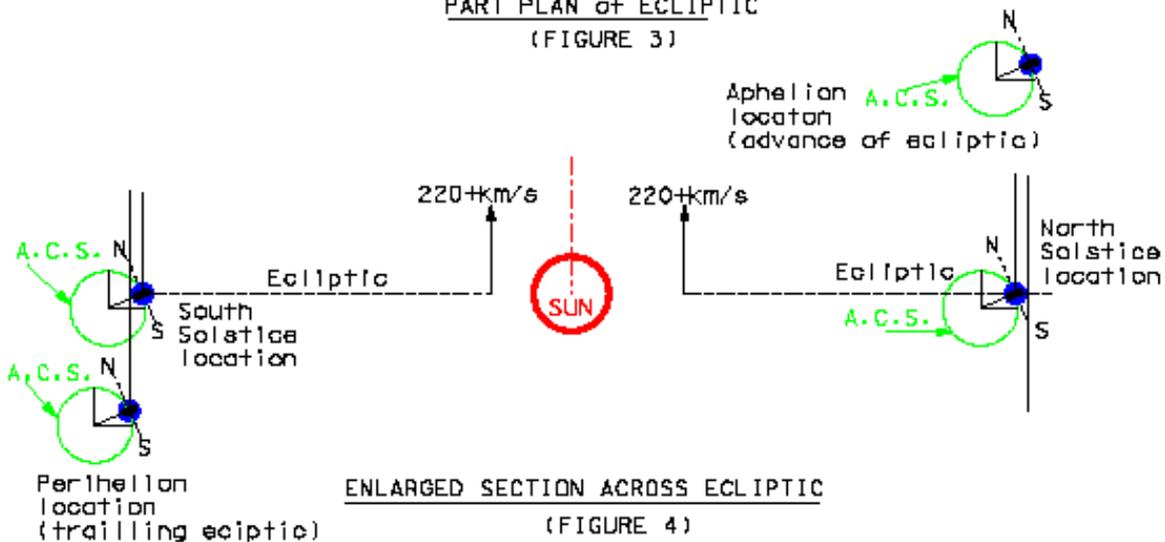
Earth trails ecliptic by 402km and not significant at 150,000,000km radius, but there is a small angle to ecliptic. The distance in advance at perihelion can be taken as similar.

Movement of Earth axis, has an angle to the Ecliptic, varying from 24.5° - 22.1° a difference of 2.4° during a period of 13,000 years in this environment caused by 180° A.C.S. spin. Current axis 23.44° and deviation from Max. axis to existing 24.5° - 23.44° = 1.06° (1.06° / 2.4°) x 180° = 79.5° rotation from the 24.5° maximum.

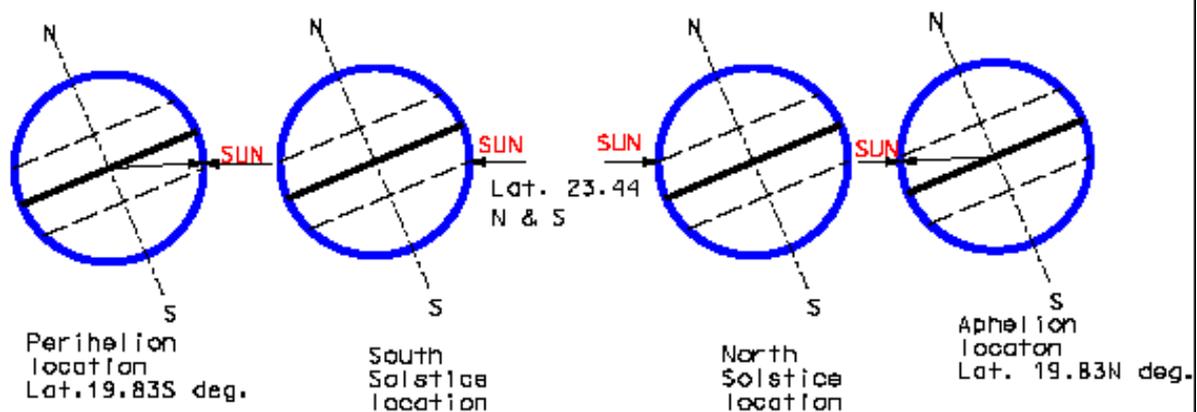
This raises an interesting observation; as at the 90° spin location (6,500 yrs) of the A.C.S. Perihelion is now moved to 90° around the A.C.S. Or to the position of figure 2A. By extension Perihelion is moving continuously! 90° x 3600 arc-sec/ 6500yrs = 50 Arc-Sec per yr.



PART PLAN of ECLIPTIC
(FIGURE 3)



ENLARGED SECTION ACROSS ECLIPTIC
(FIGURE 4)



ENLARGED SECTION OF SUN-EARTH ORBIT
(FIGURE 5)

NOTE: Earth's axis has some angle to ecliptic

NOTE:
DATA AS PUBLISHED
Except for derived distances SUN
to solstice locations

Figure 7 is the receding view of the ecliptic where an ‘apparent?’ orbit of Earth may be observed. The observed orbit (**circle** Dia. 5,003,599.5km) is in effect due to A.C.S. doing a single precessional orbit once per year, while Earth remains in a fixed ‘limpet?’ location within. Published data advises A.C.S. also does a slow spin of 26,000yrs for a complete 360° spin of Axis movement. Giving Earth axis an apparent change of 2.4° per 26,000yrs.;- (in comparison to Ecliptic) but in this geometry the location of the tangent is fixed with reference to the A.C.S. axis. The earth Axis is a tangent to A.C.S. which spins around the 360° circle in 26,000yrs or 49.846 Arc-Secs per year, with A.C.S. axis mounted at 88.8° to the Ecliptic. The Earth Axis is at a constant tangent of 23.3° to the A.C.S. axis while mounted on the inner surface of the A.C.S. The axis of the A.S.C. spins at a constant 88.8° to the ecliptic, so varying the Earth tangent from 22.1° – 24.5° with reference to the Ecliptic.

In summary the A.C.S. has five constants;-
 Constant radius from SUN. (Kepler’s radius)
 Constant Earth tangential axis angle on A.C.S. axis; tangent 23.3°
 Constant A.C.S. axis spin rate 26,000 yrs? (as announced)
 A.C.S. axis has a gyro stability with reference to SPACE.
 A.C.S. axis is constant angle to Ecliptic at 88.8°.
 These factors do not affect eccentricity.

FIGURE 6

There is one more puzzle to be resolved, the location of the planet Earth within the A.C.S. and the position of Earth’s apparent mounted position and orbit **circle** diameter, here explained as difference of;

$$\text{Dia.} = \text{Aphelion} - \text{Perihelion} = 5,003,599\text{km} \rightarrow \text{Rad} = 2,501,799.5\text{Km}$$

$$\text{Rad.} = 2,501,799.5\text{km} \text{ coinciding at some distance (a) from centre of A.C.S. centre and tilted } 1.2^\circ$$

$$\text{distance ('a')} / \text{Rad} = \sin 23.4;$$

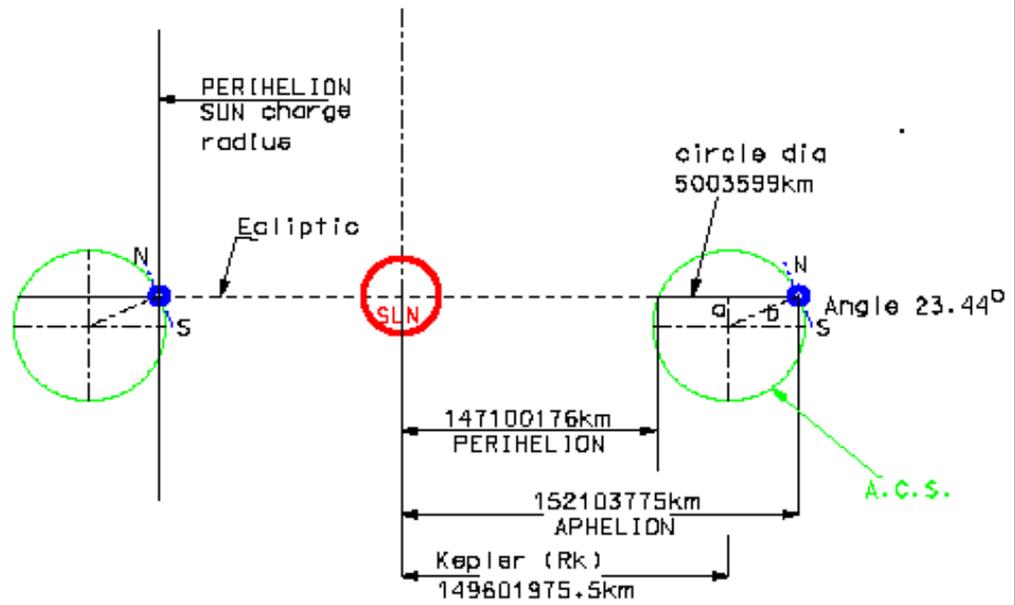
$$\text{Centre of A.C.S. behind Ecliptic (distance a)} = 2,501,799.5 \times 0.39714789.5 = 993,584.4\text{km}$$

$$\text{Radius of A.S.C. (b)} = 2,501,799.5 / \cos 23.4^\circ = 2,726,000\text{km}$$

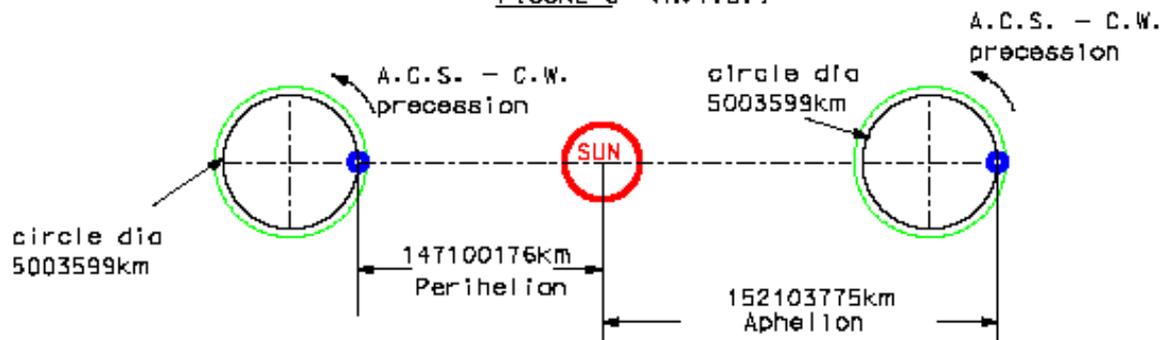
MORE GEOMETRIC SPECULATION

Now for some kinetic application;- what is real location of Earth within the circumference of the A.C.S. and what generates ‘Earth Spin?’ at this radius?, and why does it appear as a ‘limpet?’ What will be theorized is that the Earth daily spin circumference is generated by “Surfing and spinning” in the opposite direction of an induced waveform. Earth travels in reverse by the same distance that the A.C.S. circumference travels, giving the appearance of being stationary. These opposition movements generated maintains Earth in a near fixed location by opposite spin (as for the motor cycle wheel)

To explain Earth’s apparent ‘limpet’ location the attributes of a circular centrifuge will be employed;- External rotation of the A.C.S. sphere charge with interacting contact to the Earth charge field will cause Earth’s rotation about the tangential axis at constant 23.5° (to the A.C.S. AXIS). Evert suggests planets surf along in front of such an induced Aether energy wave. This idea can be replicated with two pencils and a piece of cloth mounted on a small board. Pencil 1 is placed under the material and pencil two is placed alongside, but on top. By sliding pencil 1 under the cloth, pencil 2 can be observed to ‘surf’ and rotate. Evert also suggests wave energy ripples through SPACE like waves around a jelly fish. In this case surface waves travelling around the inner circumference of the A.C.S.

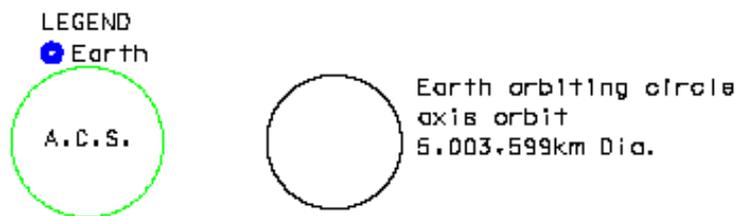


Basic diagram: Perihelion and Aphelion locations
 FIGURE 6 -(N.T.S.)



View of ecliptic plane as it is receding
 NOTE: Earth axis is now hidden

FIGURE 7 -(N.T.S.)



Circum. Earth's orbit **circle** mounted inside A.C.S. = $\pi \times (D + \text{Rad. Earth})$

$$= \pi \times (5,003,599.5 + 6,378.1)\text{km} = 1,573,908.8\text{km}$$

Earth **Circle** arc length travelled per day = $1,573,908.8 / 365.24 = 43,093\text{km/day}$

A.C.S interactive spin Rad. Impressed on (Earth + charge field) = $43,093 / 2 \pi = 6,858.5.7\text{km}$

Earth Rad. = 6,378.1km

Derived Earth charge field radius, from total Spin radius = 6,858.5km

Derived height of charge field = $6,858.5 - 6,378.1\text{km} = 480.4\text{km}$.

Charged Ionosphere extends to 1,000km. (Evert)

Aspden derives a number 200km from Earth surface, based on a variation on Quantum theory

Now there is a close distance correlation to say the Earth spin is caused by interacting contact with A.C.S. charge surface spin inducing a wave. This A.C.S. axis spin is at 88.8° to the Ecliptic and where the Earth tangent to the A.C.S spin is a constant 23.3° . In event the Earth **Circle** now is tilted at 1.2° to the Ecliptic explaining earth's Axis tilt variation over a period 26,000 years.

FIGURE 6

From Fig. 6; the Kepler radius can increase if the A.C.S. precessing in the direction of the spiral (Z) and advancing its centre, relative position, to coincide with the Ecliptic. The Earth orbit circle now increased as it moved towards the A.C.S. diameter. The Earth axis tangent would increase relative to the Ecliptic and the Kepler radius would also increase and increase the Aphelion distance. That is the orbit **circle** Dia. could increased to the value of the A.C.S. Dia. ($2 \times 2,726,000\text{km}$) the Kepler radius increase, (a longer year) 'Aphelion' would increase to;

$$\text{Aphelion} = 152,103,775 + 2,726,000\text{km} = 154,829,775\text{km}$$

MODEL

A suggested A.C.S. model can be made using an apple;

- Cut off the top quarter across the core; exposing the **circle**
- Insert a wood skewer down through the core as the axis of spin.
- Erect at an angle of 88.8°
- Insert a seed (planet Earth)? Just near the skin.

There you have it!

CONCLUSION

Astrophysicists contend that, planet 'Kepler 78B, with an 8.5hr orbit' defies Newton's gravitational laws and some serious rethinking is required. [Author;- here is some?]

The geometry of a motor cycle tyre being "pinned" by a rotating centrifuge (A.C.S.); where the planet is mounted on the axle, with the outer limit of its tyre 'the Charge field radius' [Mathis], gives a recognizable mechanism to explain such a charge field radius.

Physicists have never identified the energy sources which can vary planet tangential velocities to generate elliptical orbits, nor how to include the common 370km/s shared by all Solar System planets.

Authors quoted above have explained their theories in terms of an AETHER being in existence. In particular ASPDEN and EVERT, in which they claim there are no alternatives. Their Papers are extensive and cannot be shortened, for inclusion above. Extrapolation of their papers is purely the opinion of this Author.

As the Standard Model has no answers or even speculations, the above elementary high school geometry explains the observed data. In summary each planet is transported by an Aether Energy Sphere to which the planet is fixed by 'centrifuge action', caused by interaction of "Force Fields". Earth's Carrier Sphere defined as 2,726,000km radius and rotating around an axis at 88.8° to the Ecliptic.

Derived values and "Constants?" are again the opinion of this Author for which there is now no requirement for a variable ds/dt to construct elliptical orbits. A future paper will provide a table to include all Solar System Planets, where the principle criteria again, is the ratio of planet spins per 'A.C.S. ORBIT'

A future paper will describe the gyrations of mercury's orbit, by a similar geometric analysis.

John E. Miller
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