

Why The Solar Planet Motion Trajectory is An Ellipse?(revised)

By Gerges Francis Twadrous

2nd course student – Physics Department - Physics & Math Faculty –

Peoples' Friendship University – Moscow – Russia -2010-2013

TEL +201022532292 georgytawdrous@yandex.ru / mrwaheid@gmail.com

The Assumption Of S. Virgin Mary -Written in Cairo – Egypt – 16th February 2019

Abstract

1- Solar Planet Motion Real Trajectory Is A Square (A Conclusion)

2- This square trajectory is seen by us as circular trajectory (because of Earth and moon motions)

3- Both forms of trajectory (square and circular) get interaction together and produce the ellipse trajectory as the planet motion final trajectory.... That's why the direct observation shows the planet motion trajectory as an ellipse (Kepler 1st Law is correct)

4- Planet Eccentricity supports this claim (i.e. the perihelion and aphelion points of planet motion trajectory proves that, this ellipse is produced by interaction between square and circular trajectories of motion)

5- The square and circular trajectories interaction is done because of Uranus and Neptune effects...

6- The interaction effect between the square and circular trajectories is found through the rate ($4/\pi$)

7- This effect is transported into the moon orbit in form ($400/\pi$) – and this transportation is done as Energy Transportation....

8- Saturn is the main player in the solar group geometry

This paper completes the discussion in my previous paper

Solar Planet Motion Trajectory Is A Square And Not An Ellipse

<http://vixra.org/abs/1811.0135>

Gerges Francis Tawdrous

+201022532292

E-mail

georgytawdrous@yandex.ru

mrwaheid@gmail.com

LinkedIn

<https://eg.linkedin.com/in/gerges-francis-86a351a1>

Facebook

<https://www.facebook.com/gergis.tawadrous>

Twitter

<https://twitter.com/TawdrousF>

Academia

<https://rudn.academia.edu/GergesTawadrous>

All my papers

http://vixra.org/author/gerges_francis_tawdrous

1-Introduction

The paper provides a heavy claim...let's summarize its idea as clear as possible:

- The ellipse trajectory of Planet motion is produced by interaction of 2 forms of motions trajectory square and circular..!

i.e.

- **Ellipse Trajectory = Square trajectory + Circular trajectory**

What does that mean?

- The planet motion real trajectory is a square!
- This square we should see as circular because of Earth motion!
- The interaction between these 2 forms produces the ellipse (Kepler 1st Law is correct)

But

- If the direct observation shows the trajectory as an ellipse!, based on what I claim about the square form?!

To see clearly as possible we have to answer 3 questions:

- 1- Why the planet motion trajectory is A Square?
- 2- Why we see the square trajectory as Circular One?
- 3- Why these 2 forms get interaction? Why the final trajectory isn't square or circular?

Let's start with question No.2

Why we see the square trajectory as Circular One?

The answer is so simple, we may remember the rock which Einstein have left to drop from the train... where Einstein saw the rock motion trajectory as straight line but the people on platform saw the rock motion trajectory as a curved trajectory...

So

Why the square is seen as circular?

Because of Earth Motion

Is this a sufficient answer? Of course Not! Why? Because of Earth motion velocity!

What's Earth velocity?

To see clearly as possible we need to discuss our old question....

How the matter is created?

The classical vision tells the matter is found regardless any other factor! Is it true..?

I have another vision to define the matter existence.... Let's summarize it:

- 1- The human mind contains electromagnetic waves (travel by c velocity)
- 2- I suppose The Realization Process in human mind depends on c velocity
- 3- Special Theory of Relativity tells us, if 2 observers travel with the same velocity (Even if both travel by light velocity, No difference in velocity is found), for that each of both will see the other as matter (particle) - but if there's a difference in velocity between 2 observers = light velocity, so each of them will see the other as light beam (wave)

- 4- In Young Experiment (Double Slit Experiment), the light coherence produces bright fringes and dark fringes
- 5- I claim that, the solar group is created by a coherence of 2 light beams
- 6- We see **The Bright Fringes** as **Matters** (because our mind realization process works by the light velocity by which bright fringes travel) (That's why we have body... our bodies are made of bright fringes but we see them as matters)
- 7- We see the dark fringes as distances or space (that's why the space is Energy)
- 8- This explains the planet diameter and orbital distance relationship. (Solar Planet Diameter Creation Rule <http://vixra.org/abs/1807.0190>)
- 9- This also explain why the planet move by a physical law and not in chaos... because the matter in the universe is created as An Effect Of The Human Mind On The Universe Around And The Human logic is the basic mirror between the observer and the universe.

Please review my paper

"Theory of Matter Creation" <http://vixra.org/abs/1812.0473>

If my theory is correct, that mean we see the light beam as matters

Based on that, we should ask

"What's Earth Real Velocity?"

Many physicists will refuse my previous argument

So

We need to take a look on Special Theory Of Relativitythe theory has told us

If a particle moves with light velocity, some changes may be occurred to it, such as ...

- Length Contraction
- Time Dilation
- Mass Increase

The question is...are these particle changes occurred really for the particle or for our vision only?And

Why these changes are found by higher velocity motion (light velocity)?

Because **light velocity** is one of the main factors of the **Human Realization Process**

That means, the human mind operation effects on the universe around

The Relativistic Effects Reason <http://vixra.org/abs/1902.0097>

Also the relativistic effects in Earth and Moon Motions shows Earth Real velocity is still unknown

The Moon Motion is A Relativistic Motion <http://vixra.org/abs/1812.0132>

also

Earth moves with Light Velocity Relative to the Sun <http://vixra.org/abs/1709.0331>

Note Please (Answers)

Question No.1 /Why the planet motion trajectory is **A Square**? (Because Of The Solar Group Energy Levels – the answer is in point no. 5 of this paper)

Question No. 3 / we should discuss and answer in the paper Methodology

2- Research Methodology

I use the same method in all my researches, The Planet Data Analysis...

Let's explain the idea here again

In Pythagoras triangle we found that $a^2 + b^2 = c^2$, this rule we can conclude from the triangle data if its dimensions are 3, 4 and 5... so the data may show the geometrical rules...similar to that, I use the solar planets data analysis to conclude the main geometrical rules which explain the solar planets origin and motion...

Let's use this method to explain the moon orbital motion in following:

Preface:

$$\frac{\text{Apogee Orbital Circumference (r=0.406mkm)=2.58mkm}}{\text{Moon Orbital Circumference (r=0.384mkm)=2.41mkm}} = 1.0725$$

Also

$$\frac{25.2 \text{ Mars axial tilt}}{23.4 \text{ Earth axial tilt}} = \frac{26.7 \text{ Saturn axial tilt}}{25.2 \text{ Mars axial tilt}} = \frac{28.3 \text{ Neptune axial tilt}}{26.7 \text{ Saturn axial tilt}} = 1.0725$$

Let's explain the previous Equation firstly

28.3 degrees (Neptune axial tilt) is the main value which is contracted by lorentz length contraction effect (by the 1.0725) to produce 26.7 deg (Saturn axial tilt) which also is contracted again to produce 25.2 deg. (Mars axial tilt) and then contracted again to produce 23.4 deg. (Earth axial tilt) so these 4 values are equal but the difference is found by relativistic effects

The Moon Orbital Motion:

- The moon moves 2.58 mkm daily = Earth motion daily (otherwise they will be separated from each other)
- If there's no relativistic effects in the solar system, the moon should be seen as a bright stationary point in the sky because Earth and Moon move by the same velocity.

But

- Because of the relativistic effects this value (2.58 mkm) will be contracted with the rate 1.0725 to produce the value 2.41 mkm (as in 1st Equation)
- So the moon daily motion =2.58 mkm but this value is seen =2.41mkm (because of lorentz length contraction phenomenon)
- The difference between both = 0.17 mkm which causes **The Moon Daily Displacement** (0.17 mkm = 2 x **88000 km**)
- Why the difference 0.17 mkm = **2** x moon daily displacement 88000km? may that occur because of the motions opposite directions.

This theory can answer easily why the moon orbital circumference at apogee radius (2.58mkm) = Earth daily motion..... because this circumference express the daily motion...

Please review ...

"The Moon Orbital Motion"

<https://www.academia.edu/s/77becf288e/the-moon-orbital-motion>

or <http://vixra.org/abs/1812.0200>

The Mythology answered question No.3 which is (Why these 2 forms get interaction? Why the final trajectory isn't square or circular)

(The answer/ the moon motion trajectory is produced **by interaction between 2 trajectories** of motion as similar as the ellipse trajectory)

3-Why The Solar Planet Motion Trajectory is An Ellipse?

3-1 The Main Idea

3-2 The Moon Orbit regresses Yearly 19 degrees! why?

3-3 Saturn is the main player in the Solar Group Geometry (Pluto eccentricity)

3-1 The Main Idea

- Ellipse trajectory is a result of interaction between square and circular trajectories
- This interaction is done by Uranus and Neptune effects. (by factor $4/\pi$)
- Saturn transports the energy (factor $4/\pi$) from Uranus and Neptune to Earth-Moon Orbit (in form $400/\pi$)
- The moon orbit shows the planet motion final trajectory as an ellipse

To see much better.....we should consider the following

- Uranus is perpendicular on the moon orbit
- Saturn is on horizontal level relating to the moon orbit, but Saturn is the origin point in the coordinates in which Uranus is on the vertical level.
- That's why **Saturn is the connecting point between Uranus and the moon orbit**

To review the strong relationship between Uranus and the moon orbit please review

Earth Motion Produces the Moon Orbit <http://vixra.org/abs/1806.0137>

also see Uranus Position In The Sky <http://vixra.org/abs/1806.0212>

3-2 The Moon Orbit regresses Yearly 19 degrees! why?

I-Data

Equation No.1

1.8 deg. (Neptune orbital inclination) x 0.8 deg. (Uranus orbital inclination)=1.44 deg.

II-Discussion

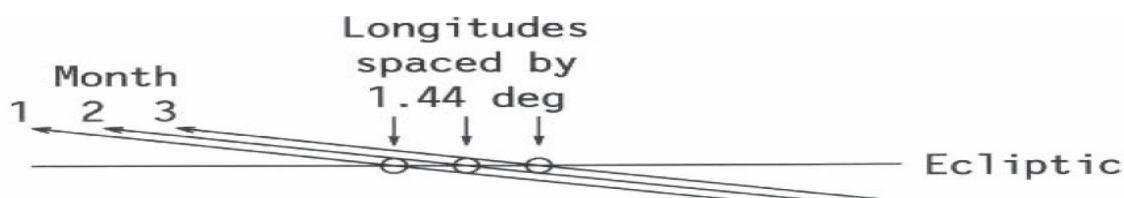


FIGURE A-9. The Moon ascends through its node (where its orbit crosses the ecliptic) once every nodical month, such a month having an average duration of 27.21222 days. Because this is less than the time it takes the Moon to complete a revolution about the Earth, the node moves clockwise along the ecliptic (from left to right in this view), successive values of the nodal longitude dropping by 1.44 degrees. The size of the Moon is shown to scale.

The previous image is taken from (page 424)

ECLIPSE The celestial phenomenon that changed the course of history **DUNCAN STEEL**

Let's summarize the idea in following:

- **Uranus is perpendicular on the moon orbit**

The Conclusion

The moon orbit regression yearly depends on Uranus and Neptune orbital inclinations (as Equation No.1 tells clearly)

3-3 Saturn is the main player in the Solar Group Geometry (Pluto Eccentricity)

I-Data

- Pluto Eccentricity Distance = 1433.5 mkm =
- **Saturn Orbital Distance = 1433.5 mkm =**
- Mars Orbital Circumference = 1433.5 mkm =
- Uranus Orbital Distance = 1433.5 mkm x 2
- Neptune Orbital Distance = 1433.5 mkm x π
- Mercury Jupiter orbital diameter = 1441.4 mkm (0.5%)

Saturn Orbital Distance we have discussed deeply in my previous paper

Solar Planet Data Geometrical Concepts disproves The Current Theory

<http://vixra.org/abs/1902.0230>

Equation 2

I suppose there's a point (called A) at orbital distance 135 mkm
(i.e. The Distance From The Sun To Point A = 135 mkm)

2737 mkm is the distance from Point A to Uranus (Uranus orbitl distance 2872.5 mkm)

5734 mkm is the distance from Point A to Pluto (Pluto orbitl distance 5870 mkm)

$$5734 \text{ mkm} = 4 \times 1433.5 \text{ mkm (Saturn Orbital Distance)}$$

Equation no. 2 shows Uranus Effect

Equation 3

$$4495.1 \text{ mkm Neptune orbital distance} = \pi \times 1433.5 \text{ mkm (Saturn Orbital Distance)}$$

Equation no. 3 shows Neptune Effect

$$(4/\pi = 1.2727)$$

By This Factor (1.272727), The Square Trajectory changes Into Circular One

II- Discussion

In fact the discussion is so hard because many basics we have discussed before we need to review here and we have no room to do that...let's refer to these basics in following

1st /Point A is found at orbital distance = 135 mkm (i.e. Point A is a real point)

Please review

Time And Distance Definitions In The Solar System

<http://vixra.org/abs/1509.0241>

2nd /Neptune Orbital Distance Importance

Solar Group Geometrical Structure

<http://vixra.org/abs/1805.0081>

3rd /The cycle 2737 years and distance 2737 mkm are equivalent

The Time Definition

<http://vixra.org/abs/1805.0523>

and

Is the 2737 Phenomenon a Real One?

<http://vixra.org/abs/1901.0381>

The Main Idea Summary

- The Solar Planets Orbital And Internal Distances Are Found By Geometrical Rules, depending on **Saturn Orbital Distance**
- Uranus and (may be Neptune) are perpendicular on the moon orbit
- Saturn is found with the rest planets on the horizontal level.
- Saturn is found on the origin point of these coordinates. (so Saturn is the connecting point between Uranus and Neptune on one side and the moon orbit at the other side)
- Saturn transports the energy from Uranus and Neptune to the moon orbit...that's why the rate $(4/\pi)$ which is found by Uranus and Neptune effects are found in the moon orbit in form $(400/\pi)$... as we have discussed in the previous paper

Solar Planet Motion Trajectory Is A Square And Not An Ellipse <http://vixra.org/abs/1811.0135>

Pluto Eccentricity Distance (5870 mkm x 0.244) = 1433.5 mkm = Saturn Orbital Distance, why?

Because

- The planet eccentricity is found as a result of the ellipse trajectory
- The ellipse trajectory is found by interaction between the square and circular trajectories of motion (my claim)
- The interaction is found by Uranus and Neptune effects (factor $4/\pi$)
- Specifically this interaction is found by the effects of 2 distance
 - "1st distance is/ Neptune orbital distance=4495.1mkm" and
 - 2nd distance is/ "distance from Point A to Pluto 5735 mkm". These 2 distances create the interaction which produce the factor (factor $4/\pi$) which transforms the square trajectory into circular one
 - As we have seen, this previous consideration contains 4 planets Uranus and Neptune are on vertical level ..so the other 2 planets are **Pluto and Saturn**.....

I want to say that....

These 2 distances are players in a geometrical structure, and these 2 distances interact (geometrically) and produce Pluto eccentricity as part of the whole geometrical structure.

We may understand much better if we can answer **why the value 1433.5mkm (Saturn orbital distance) is used for different distances in the solar group?**

I claim that, there's a geometrical reason which force to use the value 1433.5mkm frequently for the solar group distances....

In fact we need to solve this hard question which we have discussed in my previous paper

Solar Planet Data Geometrical Concepts Disproves the Current Theory

<http://vixra.org/abs/1902.0230>

4- Energy Transportation Process

- 4-1 The Rate 127.2727 is transformed into Planets Axial Tilts
- 4-2 Saturn Effect On The Moon Orbit Creation

4-1 The Rate 127.2727 is transformed into Planets Axial Tilts

The rate 127.27 is found in the moon orbit and covers the square trajectory by a circular one...

How this rate (which is produced in the moon orbit) can be covered all solar planets?

I-Data

Equation No. 4

$$\frac{127.2727}{118.3 \text{ Neptune Axial Tilt}} = 1.0725$$

Equation No. 5

$$\frac{25.2 \text{ Mars axial tilt}}{23.4 \text{ Earth axial tilt}} = \frac{26.7 \text{ Saturn axial tilt}}{25.2 \text{ Mars axial tilt}} = \frac{28.3 \text{ Neptune axial tilt}}{26.7 \text{ Saturn axial tilt}} = 1.0725$$

II- Discussion

Equation no.5 we have discussed in this paper methodology... so let's discuss equation no. 4

Equation No. 4

Neptune axial tilt = 28.3 degrees....on horizontal level....

But on vertical level 28.3 degrees +90 = 118.3 degrees

So,

118.3 degrees is Neptune Axial Tilt on vertical level...

Equation no.4 tells us that, Neptune axial tilt on vertical level "118.3 degrees" is produced by lorentz length contraction effect.... That means Neptune axial tilt receives the energy from the rate (127.27) and transforms this same energy into the other planets axial tilts but on the horizontal level...

That means

The axial tilts of Earth, Mars, Saturn and Neptune all of them expresses the rate 127.27 which change the square trajectory to be seen as circular one

4-2 Saturn Effect On The Moon Orbit Creation

Part I

I- Data

Saturn circumference = Earth Mood distance (at total solar eclipse radius)

Table No.1

"The Solar Planets Diameters Total Relationship With The Moon Orbit"

If Earth diameter = 12756 km, is considered to be = **1**

i.e. The Earth Circumference which = 40080 km, will be just = 11Π

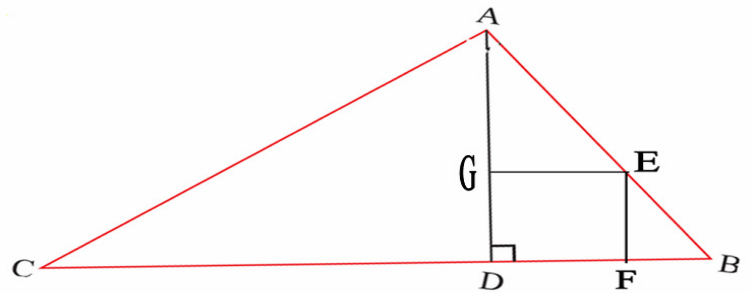
So The Following Is Correct		Error
❖ Earth Circumference	= 11Π	-
❖ Solar Inner Planets diameter total	= 11Π	-
❖ Moon motion free space (from perigee to apogee) (the free space without the moon diameter)	= 11Π	1.3%
❖ Moon Perigee orbit radius	= 9Π	-
❖ Solar outer planets diameters total	= 9Π	-
❖ Moon orbit apogee radius	= 10Π	1.2
❖ All solar planets diameters total	= 10Π	1
❖ 2 Jupiter diameter + Saturn diameter	= 10Π	-
❖ Saturn Circumference = Moon orbit radius at total solar eclipse	= 9.5Π	-
❖ Jupiter Circumference	= 11Π	1.9
❖ The Sun diameter	= $11\Pi^2$	1.2

II- Discussion

The previous data we have discussed frequently before ...I still can't explain how this data is found, but the data supports my claims... that the solar group is one machine and the planet motion seen trajectory hides another one behind...

Part II

More Data



Let's suppose **C is Earth**

- AB = 120536 km (=Saturn diameter)
- CB = 449000km (=Jupiter Circumference)
- AC = 373000 km (=Saturn Circumference)= 373000 km = (Earth Moon Distance when the moon at solar eclipse radius)

Details of CB

- CD= 363000 km =(Earth Moon Distance when the moon at perigee point)
- CF= 406000 km =(Earth Moon Distance when the moon at apogee point)
- DF=FB=43000 km (distance between perigee and apogee)
- AD is Perpendicular on the base CB where AD = DB = 86000 km
- EF=GD =43000 km (DFEG is a square its dimension =43000km)
- EF is perpendicular on the base, so the angle (BEF)= 45 degrees.

All previous dimensions are found based on Pythagoras rule ...also.

- A angle = 121.67 degrees
- C angle = 13.33 degrees
- B angle = 45 degrees

More Data:

I- Solar Planets Diameters Total = 2 Jupiter diameters + 1 Saturn diameter

II- Jupiter Diameter = 2 Jupiter Circumference – 2 Saturn Circumference

III-

Jupiter diameter	142984 km	$\frac{2\pi}{2\pi - 1}$
Saturn diameter	120536 km	

VI- CD = 363000 km = Perigee radius = outer planets diameters total

Discussion:

- In fact the previous triangle is hard to understand... ABC triangle is formed by values equal Saturn diameter, Saturn Circumference and Jupiter Circumference but the moon orbit main points are defined clearly by this triangle altitude and his parallel line created to divide DB into 2 partswhere Saturn Circumference = the moon orbital radius at total solar eclipse.... !
- I have tried frequently to show that there are **Geometrical Rules Behind The Matter Creation**...this is the main idea in my researchbecause the current theories suppose that the planets are created from an exploded star material by

gravity forces effect.... This concept is absolutely wrong because the planets matters (diameters and circumferences) can't be created by any random process... but by geometrical rules.. as we see clearly in the previous triangle..

Conclusions:

- Saturn and Jupiter Diameters are created in interaction with the moon orbit different radiuses!
- Saturn and Jupiter Diameters are created in interaction with the solar planets diameters!

Please review

The Moon Orbit analysis

<http://vixra.org/abs/1811.0422>

The Moon Orbit Triangle

<http://vixra.org/abs/1901.0082>

5- Why The Planet Motion Trajectory Is A Square?

Why The Planet Motion Trajectory Is A Square? (Because Of The Solar Group Energy Levels)

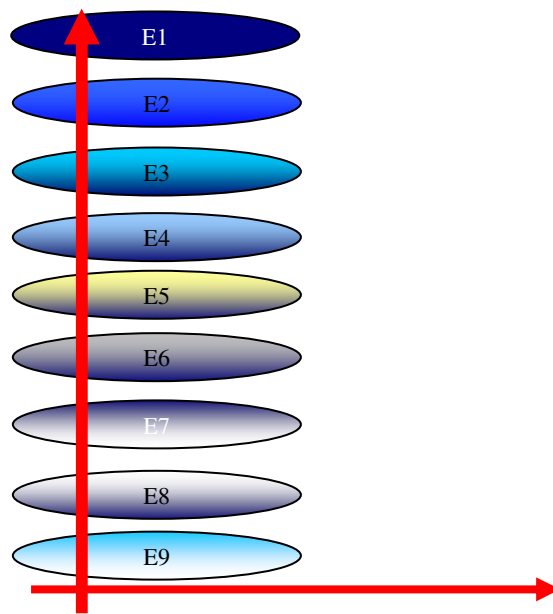
This question answer depends on "Vacuum Energy Theory"

Let's remember this theory abstract in following

The figure shows The Solar Group (E₁ is Mercury level but E₉ Is Pluto level)

Vacuum Energy Theory Basics

- Vacuum stores Energy (Space is Energy)
- Vacuum stores Energy with different capacities (Space has different densities of Energy).
- Vacuum with higher storing Capacity (Space with higher density of Energy) goes to upper location vertically relating to other Space Layers (as shown in the figure).
- The solar group has 9 Space layers (Mercury Level is the highest Layer vertically)
- Each Space Layer has different density of Energy (different Capacity)
- Each Space layer stores Energy....from this Energy the planet matter is created and the layer rest Energy is used as potential energy which will transferred into Kinetic Energy to be used for this planet motion.
- The relativistic effects (specifically Lorentz length contraction) leads to increase the Vacuum storing capacity of Energy (i.e. increase the Space density of Energy)
- The Previous description explains why the solar group motions trajectory is in a pyramid form.
- The solar group original Energy is provided by the Earth



Please review

Vacuum Energy Theory

<http://vixra.org/abs/1901.0163>

Author Other Papers

Solar Planet Data Geometrical Concepts disproves the Current Theory

<http://vixra.org/abs/1902.0230>

The Relativistic Effects Reason

<http://vixra.org/abs/1902.0097>

Life Is Found On Earth Only (Claim)

<http://vixra.org/abs/1901.0422>

Is the 2737 Phenomenon a Real One?

<http://vixra.org/abs/1901.0381>

Vacuum Energy Theory

<http://vixra.org/abs/1901.0163>

The Moon Orbit Triangle

<http://vixra.org/abs/1901.0082>

The Solar Day Production

<http://vixra.org/abs/1812.0426>

The Moon Orbital Motion

<http://vixra.org/abs/1812.0160>

Why Energy has Different Forms?

<http://vixra.org/abs/1812.0116>

Author curriculum vitae

<http://vixra.org/abs/1902.0044>

or

https://www.academia.edu/38285624/Gerges_Francis_Tawdrous_Curriculum_Vitae_.doc

or

<https://www.slideshare.net/Gergesfrancis/gerges-francis-tawdrous-curriculum-vitae>