

**There Are Relativistic Effects In The Solar Group (Proves)  
Solar Group Geometry (Part 23)  
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**Abstract**

**The Main Hypothesis**

***"There Are Relativistic Effects In The Solar Group"***

We can't observe the higher velocity which produces these relativistic effects but we can observe the relativistic effects which are produced by it.

As proves for the relativistic effects, I may refer to the following:

- 1. The Earth Moon Motion ...**
- 2. Mercury Day Period...**

The previous 2 phenomena should be discussed in this paper with many other as proves for the relativistic effects are found in the solar group geometry.

**This Papers provides 2 Points**

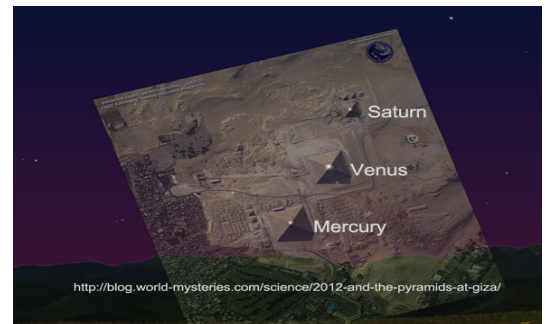
**1<sup>st</sup> Point** : The Relativistic Effects Proves

**2<sup>nd</sup> Point** : The Relativistic effects Geometrical Meaning and Description.

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**S. Virgin Mary Assumption into Heaven.**

Written in Cairo – Egypt  
31<sup>st</sup> March 2019



**IN THE ALMIGHTY GOD NAME**  
Through the Mother of God mediation  
I do this research

**Planetary Fact Sheet - Metric**

	<u>MERCURY</u>	<u>VENUS</u>	<u>EARTH</u>	<u>MOON</u>	<u>MARS</u>	<u>JUPITER</u>	<u>SATURN</u>	<u>URANUS</u>	<u>NEPTUNE</u>	<u>PLUTO</u>
<u>Mass</u> (10 <sup>24</sup> kg)	0.330	4.87	5.97	0.073	0.642	1898	568	86.8	102	0.0131
<u>Diameter</u> (km)	4879	12,104	12,756	3475	6792	142,984	120,536	51,118	49,528	2390
<u>Density</u> (kg/m <sup>3</sup> )	5427	5243	5514	3340	3933	1326	687	1271	1638	1830
<u>Gravity</u> (m/s <sup>2</sup> )	3.7	8.9	9.8	1.6	3.7	23.1	9.0	8.7	11.0	0.6
<u>Escape Velocity</u> (km/s)	4.3	10.4	11.2	2.4	5.0	59.5	35.5	21.3	23.5	1.1
<u>Rotation Period</u> (hours)	1407.6	-5832.5	23.9	655.7	24.6	9.9	10.7	-17.2	16.1	-153.3
<u>Length of Day</u> (hours)	4222.6	2802.0	24.0	708.7	24.7	9.9	10.7	17.2	16.1	153.3
<u>Distance from Sun</u> (10 <sup>6</sup> km)	57.9	108.2	149.6	0.384*	227.9	778.6	1433.5	2872.5	4495.1	5870.0
<u>Perihelion</u> (10 <sup>6</sup> km)	46.0	107.5	147.1	0.363*	206.6	740.5	1352.6	2741.3	4444.5	4435.0
<u>Aphelion</u> (10 <sup>6</sup> km)	69.8	108.9	152.1	0.406*	249.2	816.6	1514.5	3003.6	4545.7	7304.3
<u>Orbital Period</u> (days)	88.0	224.7	365.2	27.3	687.0	4331	10,747	30,589	59,800	90,588
<u>Orbital Velocity</u> (km/s)	47.4	35.0	29.8	1.0	24.1	13.1	9.7	6.8	5.4	4.7
<u>Orbital Inclination</u> (degrees)	7.0	3.4	0.0	5.1	1.9	1.3	2.5	0.8	1.8	17.2
<u>Orbital Eccentricity</u>	0.205	0.007	0.017	0.055	0.094	0.049	0.057	0.046	0.011	0.244
<u>Axial Tilt</u> (degrees)	0.01	177.4	23.4	6.7	25.2	3.1	26.7	97.8	28.3	122.5
<u>Mean Temperature</u> (C)	167	464	15	-20	-65	-110	-140	-195	-200	-225
<u>Surface Pressure</u> (bars)	0	92	1	0	0.01	Unknown*	Unknown*	Unknown*	Unknown*	0
<u>Number of Moons</u>	0	0	1	0	2	67	62	27	14	5
<u>Ring System?</u>	No	No	No	No	No	Yes	Yes	Yes	Yes	No
<u>Global Magnetic Field?</u>	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Unknown
	<u>MERCURY</u>	<u>VENUS</u>	<u>EARTH</u>	<u>MOON</u>	<u>MARS</u>	<u>JUPITER</u>	<u>SATURN</u>	<u>URANUS</u>	<u>NEPTUNE</u>	<u>PLUTO</u>

<http://nssdc.gsfc.nasa.gov/planetary/factsheet/>

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## 1- Introduction

In this paper methodology we'll discuss **how the moon orbital motion is found basically based on the relativistic effects...**

This explanation uses the rate 1.0725 as a rate found by relativistic effects- and I want in the introduction to show that this rate is found frequently in the solar planets data and not limited only to the moon motion distance

So let's provide the data in following...

### I- Data (Distances)

1st-	$\frac{\text{Earth Daily Motion } 2.58 \text{ mkm}}{\text{Moon Orbital Circumference } 2.41 \text{ mkm}} = 1.0725$	(No Error)
2nd-	$\frac{\text{Apogee orbital radius } (406000 \text{ km})}{\text{Total Solar Eclipse radius } (378500 \text{ km})} = 1.0725$	(No Error)
3rd-	$\frac{778.6 \text{ mkm Juppiter Orbital Distance}}{720.3 \text{ mkm Jupiter Mercury distance}} = 1.0725$	(0.7%)
4th-	$\frac{720.3 \text{ mkm Jupiter Mercury distance}}{670 \text{ mkm Jupiter Venus Distance}} = 1.0725$	(No Error)
5th-	$\frac{670 \text{ mkm Jupiter Venus Distance}}{629 \text{ mkm Jupiter Earth Distance}} = 1.0725$	(0.6%)
6th-	$\frac{\text{Jupiter Orbital Circumference } (4894 \text{ mkm})}{\text{Neptune Orbital Distance } (4495.1 \text{ mkm})} = 1.0725$	(Error 1.5 %)
7th-	$\frac{\text{Saturn Orbital Distance } (1433.5 \text{ mkm})}{\text{Sarurn Venus Distance } (1325.3 \text{ mkm})} = 1.0725$	(Error 0.8%)
8th-	$\frac{\text{Saturn Earth Distance } (1284 \text{ mkm})}{\text{Sarurn Mars Distance } (1205.6 \text{ mkm})} = 1.0725$	(Error 0.7%)
9th-	$\frac{\text{Uranus Orbital Distance } (2872.5 \text{ mkm})}{\text{Uranus Mars Distance } (2644 \text{ mkm})} = 1.0725$	(Error 0.7%)

### II- Discussion

The previous data tells us that there are many different distances have the rate 1.0725 between them- which provide a clear question- why these distances are rated to each other by this same rate?

My answer is : because this rate is found by lorentz contraction effect which effect on all these distances... (Note Please the previous Data is example only and there are many different values are rated by this same rate)

Please review

Solar Group Geometrical Structure <http://vixra.org/abs/1805.0081>

And

The Time Definition <http://vixra.org/abs/1805.0523>

## 2- 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...

Note please/ we depend on The Data Direction so the data analysis is important process because we need to see if the data concluded direction is supported and real one.

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

### Preface:

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

Also

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

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 1<sup>st</sup> 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"

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

or

<https://www.slideshare.net/Gergesfrancis/the-moon-orbital-motion>

### **3- The Relativistic Effects Proves**

3-1 Preface

3-2 The Moon orbital motion is a relativistic effects

3-3 Mercury Day Period is found as a relativistic effects

#### **3-1 Preface**

What does Special Theory of Relativity tell us?

If a particle moves by velocity  $v=0.99c$  (where  $c$  is light velocity), So this particle will suffer from lorentz length contraction effect with a rate =7.1

But if the velocity  $v = 0.9999c$  So the rate will be 71

So, if we find the rate 7.1 between the solar planets orbital and internal distances, can we suppose this rate 7.1 is found as a relativistic effects? Let's see one example in following:

#### **- Example 1**

Earth Motion Energy produces the Moon Orbit:

In Lorentz Length contraction Equation

$$L_o = \frac{L}{\sqrt{1 - \frac{v^2}{c^2}}}$$

If

- $L_o =$  Earth Daily Motion = 2.58 million
- $v = 0.99 c$  (hidden velocity- Hypothesis)
- $L = 363000$  km (the distance between Earth and moon at Perigee Point)
- $L_o = 7.09 L$

That means

**Earth Energy Motion** moves toward the moon and builds the moon orbit radius at perigee point (363000 km)

If we accept the previous idea- how the rate 1.0725 is found?

#### **- The Rate 1.0725**

$$\frac{7.1}{100} + 1 = 1.071 \quad (\text{Equation No. I})$$

The previous Equation tells us that, (1.071 is very near to 1.0725)

The rates 7.1 and 1.0725 are found based on the same velocity  $v=0.99c$  but the rate 1.0725 uses more complex system or description- that means the length contraction effect doesn't effect directly as we imagine in the simple forms. Rather the contraction effects on the distance by some complex interacted system which causes the contraction is this new rate 1.0725

We need to discuss the geometrical description and meaning for the relativistic effects to see much better the concept (this description will be in point no. 4)

### **3-2 The Moon orbital motion is a relativistic effects**

We have discussed the moon orbital motion in this paper methodology

### **3-3 Mercury Day Period is found as a relativistic effects**

#### **I- Data**

- Mercury Day Period = 176 days minus 84 minutes (5040 seconds)

#### **II- Discussion**

- If we have a velocity  $v = 0.9999c$  so the length contraction rate will be 71
- $(71)^2 = 5041$
- The period 5040 seconds are very useful value in the solar group geometry!

I claim that **the 5040 seconds are found as a relativistic effect**

How to prove that?

I'll provide some important data concerning the value 5040 seconds in following! But why this is a proof?

Shortly I can't prove that unless we discuss our geometrical understanding for the relativistic effects – for example why the length is contracted because of the high velocity? Why the time dilation is occurred? We need to see the theoretical background to prove this claim – so I'll provide the data here but the discussion will be in point No. 4 (The Relativistic effects Geometrical Meaning and Description)

Let's provide the Data in following:

#### **I-Data**

#### **During A Period = 5040 seconds**

- a- Mercury moves a distance = 2 Saturn diameter (Error 1%)
- b- Mars moves a distance = 1 Saturn diameter (Less than 1%)
- c- Saturn moves a distance = Neptune diameter (Error 1.2%)
- d- Pluto moves a distance = Pluto circumference x  $\pi$  (Less than 1%)

#### **Note Please**

- e- Neptune Orbital Distance = Saturn orbital distance x  $\pi$
- f- Pluto eccentricity distance = Saturn orbital distance

Also

- g- Saturn Orbital Distance = Mars Orbital Circumference = 0.5 Uranus Orbital distance = 2 Mercury Jupiter Distance (error 0.5%)
- h- **Saturn Orbital Distance = (Saturn diameter)<sup>2</sup>/ $\pi^2$**  (Error 2.6 %)

#### **Please review**

Does Earth Velocity Causes The Eclipse Phenomena? (T.S. Eclipse III)

<http://vixra.org/abs/1903.0489>

Why We See the Sun Disc = the Moon Disc? (T.S. Eclipse II)

<http://vixra.org/abs/1903.0322>

## **4-The Relativistic effects Geometrical Meaning and Description**

4-1 The Time Definition

4-2 Saturn Orbital distance

### **4-1 The Time Defination**

Where's our difficulty? In the definition... what's the day? (86400 seconds)! is it correct answer?

While we understood the unit 1 meter by some meaning, and we understood the unit 1 second by another meaning...so our advanced description (in our mind) prevent us completely to think that **1 second may be very near to 1 meter**... these 2 values are not similar or equal by any way..! the time is time and distance is a distance... we keep by heart! But what Special Theory of relativity tells us?

### **I- Light velocity equation (1<sup>st</sup> Method)**

$$X = CT$$

Distance = times multiplies with light velocity...

If  $C=1$

So

**time will be equivalent to the distance!**

What does mean the time is equivalent to the distance?

Our daily experiences cause serious difficulty to accept such idea

But this idea –if we can prove- will be an addition to the special theory of relativity  
i.e.

**a development for SR theory**

let's explain the idea and later provide the proof

If Energy (or particle) moves with  $c$  velocity, the following features will be occurred

1. The mass increasing
2. The time dilation
3. The length contraction

### **4. The time values will be seen as distances values**

**Point No. 4 is my contribution to develop the Special Theory of Relativity  
(Gerges Francis Tawdrous contribution)**

### **II- The Solar Group data (2<sup>nd</sup> Method)**

Solar group data tells us that the time and distance values can be equivalent in specific situations

i.e. not all distance values can be seen as time values but just some of them (depending on the observer position and case)

let's consider one example to explain that

25920 years is the Cycle of Precession

It's known Cycle

(Earth Axis needs 25920 to rotate a complete rotation around himself)

But



25920 million km = the distance passed by the light his velocity 0.3mkm/sec during one complete day 86400 second

Also

25920 million km= 17.76 solar planets total velocities per day x 1461 days (earth 4 years Cycle)

(25920 is the distance moved by all solar planets during 1461 days)

So we see the same number in 2 different units (one in time and the other is distance)!  
That's my idea

**This effect is happened because the solar group motions are relativistic motions**

Now we can discuss the hard question

Why Mercury during 5040 seconds moves a distance = 2 Saturn diameters?

Please review my paper

Does Earth Velocity Causes The Eclipse Phenomena? (T.S. Eclipse III)

<http://vixra.org/abs/1903.0489>

in which we have discussed that Mercury during his Day Period moves a distance = Mercury Jupiter Distance

Also Please review

The Time Definition

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

Solar Group Geometrical Structure

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

## 4-2 Saturn Orbital distance

Let's remember here Saturn Data in following (sub-point 3-3)

### I- Data

#### Group No. 1

**During A Period = 5040 seconds**

- |                             |                               |                |
|-----------------------------|-------------------------------|----------------|
| 1. Mercury moves a distance | = 2 Saturn diameter           | (Error 1%)     |
| 2. Mars moves a distance    | = 1 Saturn diameter           | (Less than 1%) |
| 3. Saturn moves a distance  | = Neptune diameter            | (Error 1.2%)   |
| 4. Pluto moves a distance   | = Pluto circumference x $\pi$ | (Less than 1%) |

**Note Please**

- |                                |                                   |  |
|--------------------------------|-----------------------------------|--|
| 5. Neptune Orbital Distance    | = Saturn orbital distance x $\pi$ |  |
| 6. Pluto eccentricity distance | = Saturn orbital distance         |  |

Also

- |   |  |               |
|---|--|---------------|
| 7. Saturn Orbital Distance = Mars Orbital Circumference = 0.5 Uranus Orbital distance = 2 Mercury Jupiter Distance (error 0.5%) |  |               |
| 8. <b>Saturn Orbital Distance = (Saturn diameter)<sup>2</sup>/<math>\pi^2</math></b>  |  | (Error 2.6 %) |
| 9. Saturn diameter = Venus Diameter x $\pi^2$   |  |               |
| 10. The Sun diameter = Jupiter Diameter x $\pi^2$   |  | (Error 1.3%)  |

#### Group No. 2

Table No.1	error
-1433.5 days x Mercury velocity daily 4.095 mkm = 5870 mkm Pluto Orbital Distance	0
-1433.5 days x Venus velocity daily 3.02 mkm = 4329 mkm Venus Neptune Distance	0
-1433.5 days x Earth velocity daily 2.58 mkm = 3699 mkm Jupiter Neptune Distance	0
-1433.5 days x Mars velocity daily 2.082 mkm = 2984.5 mkm Uranus Pluto Distance	0
-1433.5 days x Jupiter velocity daily 1.1318 mkm = 1622.4 mkm Uranus Neptune Distance	0
-1433.5 days x Saturn velocity daily 0.838 mkm = 1201 mkm Mars Saturn Distance	0.3%
-1433.5 days x Uranus velocity daily 0.5875 mkm = 842 mkm	
-1433.5 days x Neptune velocity daily 0.4665 mkm = 670 mkm Venus Jupiter Distance	0
-1433.5 days x Pluto velocity daily 0.406 mkm = 582 mkm Mercury Earth distance*2 $\pi$	1%

**Group No. 3**

<b>Table No.2</b>		
<b>"The Solar Planets Diameters Total Relationship With The Moon Orbit"</b>		
If Earth diameter = 12756 km, is considered to be = 1		
<b>i.e. The Earth Circumference which = 40080 km, will be just =<math>\Pi</math></b>		
<b>So The Following Is Correct</b>		<b>Error</b>
❖ Earth Circumference	= $\Pi$	-
❖ Solar Inner Planets diameter total	= $\Pi$	-
❖ Moon motion free space (from perigee to apogee) (the free space without the moon diameter)	= $\Pi$	1.3%
❖ Moon Perigee orbit radius	= $9 \Pi$	-
❖ Solar outer planets diameters total	= $9 \Pi$	-
❖ Moon orbit apogee radius	= $10 \Pi$	1.2
❖ All solar planets diameters total	= $10 \Pi$	1
❖ <b>2 Jupiter diameter + Saturn diameter</b>	= $10 \Pi$	-
❖ <b>Saturn Circumference</b> = Moon orbit radius at total solar eclipse	= $9.5 \Pi$	-
❖ <b>Jupiter Circumference</b>	= $11 \Pi$	1.9
❖ The Sun diameter	= $11 \Pi^2$	1.2

## II- Discussion

We discuss here Table No. 1 (Saturn Orbital Distance 1433.5 mkm)

In this table, the distance 1433.5 mkm, We will use as 1433.5 days...

All solar planets real velocities performed real distances in the solar group except Uranus!  
Can all these data be "pure coincidences"?

Let's first see How the 1433.5 mkm can be 1433.5 days

i.e. 1 day = 1 mkm

- The moon orbit regresses 19 degrees yearly causes the eclipse cycle to regress by 19 days, means 1 day = 1 degree
- Mercury orbital Circumference = 360 mkm and his degrees = 360 degrees i.e. 1 degree = 1 mkm
- Now if 1 degree of the moon orbit = 1 Degree of the Mercury Orbital Circumference we will perform our goal.....how these 2 values can be equal...? **If the solar group is one machine and each planet is a gear in this same machine, so this goal can be performed**

### **III- Time Definition**

What's the time?

### **The time is an Energy,**

Because the time is equivalent to the distance

And in the previous paper, we have defined the distance as an Energy

### **VI- Solar Group Geometrical Design**

The time is equivalent to the distance!

What does that mean?

What time is equivalent to what distance?

Now we have a distance = 1 million km, and this distance will be a time

What time will be produced?

Let's find some help from the solar group data

#### **Data**

Distance = 1 million km

- 1 mkm = 1 second, this rate we have found with the distance 86400 mkm which we discussed deeply in previous paper
- 1mkm= 1 minute, this rate is found with Saturn orbital Distance 1433.5 mkm which equal 1434 minutes (Earth rotation period)
- 1mkm = 1 hour, this rate is found with Jupiter Saturn distance (655.7 mkm) which equal moon sidereal month
- 1mkm= 1day, this rate is found with Mercury Orbital circumference 364 mkm, which equal earth orbital period 365.25 days
- 1mkm= 1 week, this rate in found with Mercury Venus distance 50.3 mkm, which equal sidereal Moon year 352.5 days
- 1mkm=1 month this rate is found with Mars orbital distance 228 mkm, which equal Metonic Cycle (12months x 19 years)
- 1 mkm=1 year this rate is found with the Cycle 25920 years we discussed before
- 1 mkm = 1 Earth Cycle (1461 days), this rate is found with the cycle 2736 years which equal the distance 680 mkm (Venus Orbital Circumference)

What do we understand with the previous data?

#### **Discussion**

The previous data tells us one new clear information

**The Solar Group Geometry Makes The Distances To Be Unified, To Create Different Rates Of Time**

What does that mean?

The distance also has different rates! Yes the time has day, minute and seconds...etc

But the distance has km and thousand km and million km and .....etc

So, how to understand this conclusion?

**Yes the distance has different rates but no cycle makes this rate to be shown**

**The time different rates have cycles in the solar group to make this rates are shown**

That's why the humanity knew all time rates year, month, week, day, minute, seconds

These values are standard for the universe regardless the people knowledge

But for distance, people uses km, miles, cubes ...etc

### **Solar Group Geometrical Design**

The previous notice is interesting, the time periods are clear for people but distances aren't that because the universe geometry explains the time different values and rates..

Interesting idea

But what's the useful result form it?

Why the time different rates and values are seen but the distances aren't?

Because the distances are unified but the time values are specific and shown by cycles

So, the 1 million km which we used in previous data is the same

But with different rates of time..!

Now let's ask

why the solar geometry does that?!

Because

**The Energy accumulation process depends on different rates of time**

By the different rates of time Earth motion can produce the Sun Energy

i.e.

**what the Earth moved along complete year, the sun can uses for one day only**

so we can see how the energy is accumulated

let's summarize all that in clear idea

#### **4-5 The main Idea Summary**

- Based on the solar group relativistic motions, time values can be seen as distances values
- The solar geometry uses unified distances to create different values of time, which are seen by different cycles
- The time different values depend on each other to create different rates of time
- By this different rates of time the Energy can be accumulated to produce huge energy from average one.
- Based on this description, the solar planets motions produce the sun light beams
- Also by this same method the Earth produces an energy  $=4c$  and sends this energy to Jupiter in form a light beam his velocity  $=1.16\text{mkm/sec}$ , where Jupiter uses this energy in his process as we have explained in the previous paper

#### **For Details Please Review**

##### **The Solar Group is One Geometrical Structure**

<http://vixra.org/abs/1811.0523>

##### **The Time Definition**

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

##### **Solar Group Geometrical Structure**

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

**Appendix No. 1 The 2737 Phenomenon  
(The Planets alignment in December 2012)**

( I called: The Egyptian Astronomic Phenomenon 2737)

**1- Introduction**

On 3<sup>rd</sup> December 2012 aligned 3 planets (Mercury, Venus and Saturn) on the three Great Pyramids heads in Egypt, the Phenomenon repeated just once each 2737 years.

I called this phenomenon

**"The 2737 Egyptian Astronomic Phenomenon"**

In this paper I present the proof that the 2737 Egyptian Phenomenon Cycle depends on the Moon Metonic Cycle!

And then in the 3<sup>rd</sup> Chapter I'll discuss how the three planets (Mercury, Venus and Saturn) depend on the Earth- moon orbit in their motions!

In this introduction I'll refer just to some interests we got by the 2737 Egyptian phenomenon.

PLANETARY ALIGNMENT WITH THE GIZA PYRAMIDS,  
IT ONLY HAPPENS ONCE IN 2,737 YEARS



**Some interests we got by 2737 Egyptian phenomenon:**

- ❖ **First** we know that the Pyramids builders recognized the different astronomic cycles, and especially 2737 phenomenon, for that they built just 3 pyramids at its parallel line.
- ❖ **Second**, we know that the Pyramids builders knew the relative distances between the planets and built the pyramids at their rates!
- ❖ **Third** where the 2737 phenomenon repeated on 3<sup>rd</sup> December 2012 for the third time, so the Number 8211 years is important number for human life or at least for the pyramids age.
- ❖ **Fourth**, I may claim that the Pyramids builders built the three Pyramids specifically for the 2737 Egyptian phenomenon.
- ❖ **Note:** The Great Pyramid Height is 5776 Egyptian inches = the distance between the Sun & Pluto (each inch = 1 million kilometer)

## 1<sup>ST</sup> SECTION

### **Why the Lunar year doesn't correspond with the sidereal year at any cycle?<sup>1</sup>**

We know that the moon turns with the Earth around the sun, so why the lunar year which equals 354.36 days (lunar Synodic period 29.53 days x 12 months) doesn't correspond to the Sidereal year that equals 365.25 days at any cycle?

We see the 32 Sidereal year a cycle = 11688 days

But the Lunar year cycle = 33 years - **5.81 days** = 11693.88 - 5.8 = 11688

And why there's this addition 5.81 days to prevent both periods to meet each other

We know that the plane of lunar orbit regresses 19 degrees each year that causes the eclipse to come early 19 days each year<sup>2</sup>

So that said the movement of 19 degrees causes change for 19 days

And now we see the lunar year come early 5.81 days, and the lunar plane has inclination to ecliptic equal approximately 5.14 degrees...

Can I suppose that this difference between Sidereal Cycle 11688 days and Lunar Cycle 11693.88 days which equals 5.8 days caused by the lunar plane inclination 5.14 degrees (later we will discuss How?) When we divided this inclination value 5.14 degrees (or the period 5.8 days) at 360 we find that,

The Lunar orbital inclination causes the lunar Synodic day to come early approximately 21 minutes daily..

That lead to the following results

- The correct Synodic month is 29.515

- The correct Synodic year is 354.1818 days      And by such way

The lunar cycle which contain 33 Synodic year = 11687.999 days

The Sidereal Cycles which contain 32 sidereal year = 11688 days

Where both come to end in the same day

And So the cycle of 32 sidereal years equals 33 modified Lunar Synodic years (modified lunar year = 354.1818 days) perfectly

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<sup>1</sup> - the day defines here approximately 86164 seconds where the sidereal year is 365.25 days.

<sup>2</sup> - Total Solar Eclipses and how to Observe them- Martin Mobberley- page. 11



## 2<sup>ND</sup> SECTION

### The Basic Lunar Year 360 Days

Now I modified the lunar year already from 354.36 to be 354.1818 days

But there's another year related to the moon,

In this year we should added the modified year 354.1818 to the difference of days caused by the lunar orbital inclination which was 5.8 days approximately

So  $5.8 + 354.1818 = 360$  days approximately

That's the ancient biblical year And I'll call it

### The Basic Lunar Year

Now we have three types of years

- **The Basic Lunar Year** = **360 days**
- **The modified lunar Synodic year** = **354.1818 days**
- **The Sidereal year** = **365.25 days**

And we'll see how the Metonic Cycle effect on each of them

### 3<sup>RD</sup> SECTION

#### The 2737 Egyptian Astronomic Phenomenon depends on Metonic Cycle

The Metonic Cycle defines as a moon Cycle continues for 19 Sidereal Orbit year which equals 6939.75 days, and Metonic Cycle made because the Lunar orbit plane regresses yearly 19 degrees that causes the eclipses to come early 19 days yearly.

#### The Following Table shows How The Metonic Cycle Effect On The Different Years

Metonic Cycle Number	Sidereal years No. (365.25 days)	Number of modified Lunar year (equals 354.1818 days)		The Basic lunar Year Numbers (360 days) For each Metonic Cycle
		Lunar years in each Metonic cycle	The Lunar years (354.1818days) Numbers For each Metonic Cycle	
M. Cycle 1	19 S. Year	19	19 Lunar Y. + 210.295 days	19 BLY (Basic Lunar Year) + 99.75d(days)
M. Cycle 2	38 S. Y	20	38 L. Y. +420.59d = <b>39 L. Y + 66.408 d</b>	38 BLY+ 199.5 d
M. Cycle 3	57 S. Y	19	58 L. Y + 276.703 d	57 BLY+ 299.25d
<b>M. Cycle 4</b>	<b>76 S. Y</b>	20	77 L. Y +486.998 d = 78 L. Y +132.8162 d	<b>76 BLY+399d = 77 BLY+39 days</b>
M. Cycle 5	95 S. Y	19	97 L. Y + 343.111d	96 BLY+138.75d
M. Cycle 6	114 S. Y	20	116 L.Y +553.406d = 117 L. Y + 199.224d	115 BLY+ 238.5d
M. Cycle 7	133 S. Y	20	136 L. Y +409.519d= <b>137 L. Y +55.3374d</b>	134BLY+ 338.25d
M. Cycle 8	152 S. Y	19	156 L. Y +265.6324d	153 BLY+438d= <b>154 BLY+78days</b>
M. Cycle 9	171 S. Y	20	175 L. Y +475.9274d= 176 L. Y + 121.745d	173 BLY+ 17.75d
M. Cycle 10	190 S. Y	19	195 L. Y+ 332.0406d	192 BLY+ 277.5d
M. Cycle 11	209 S. Y	20	214L.Y +542.3356d= 215 L. Y +188.1538d	211 BLY+ 37.25d = 212 BLY+ 17.25d
M. Cycle 12	228 S. Y	20	234 L. Y +398.4488d= <b>235 L. Y +44.267d</b>	231 BLY+117d
M. Cycle 13	247 S. Y	19	254 L. Y +254.652d	250BLY+ 216.75d
M. Cycle 14	266 S. Y	20	273 L. Y +464.857d= 274 L. Y + 110.675d	269 BLY+216.5d
M. Cycle 15	285 S. Y	19	293 L. Y +320.9702d	288 BLY+416.25d= 289 BLY+56.25d
M. Cycle 16	304 S. Y	20	321L.Y +531.2653d= 313 L. Y +17.0834d	308 BLY+156d
M. Cycle 17	323 S. Y	20	332 L. Y +387.378d= <b>333 L. Y + 33.1966d</b>	327 BLY+255.75d
M. Cycle 18	342 S. Y	19	352L.Y+ 243.4916d	346 BLY+ 355.5d
M. Cycle 19	361 S. Y	20	371L.Y +453.7866d= 372 L. Y + 99.60486d	365 BLY+455.25d= 366 BLY+ 95.25d
M. Cycle 20	380 S. Y	19	391 L. Y + 309.8992d	385 BLY+195d
M. Cycle 21	399 S. Y	20	410 L. Y + 520.1948d= 411 L. Y +166.013d	404 BLY+294.75 d
M. Cycle 22	418 S. Y	20	430 L. Y +376.308d <b>431 L. Y +22.12626d</b>	423 BLY+394.5d= 424 BLY+ 34.25d
M. Cycle 23	437 S. Y	19	450 L. Y + 232.4212d	443 BLY+ 134.25d
M. Cycle 24	456 S. Y	20	469 L. Y +442.7162d= 470 L. Y + 88.5344d	462 BLY+ 234d
M. Cycle 25	475 S. Y	19	489 L. Y +298.829d	481 BLY+ 333.75d
M. Cycle 26	494 S.	20	508 L. Y + 509.1244d= 509 L. Y + 154.9426d	500 BLY+433.5d= 501 BLY+ 73.5d
M. Cycle 27	513 S. Y	20	528 L. Y +365.2376d=	520 BLY+173.25d

**IN THE ALMIGHTY GOD NAME**  
Through the Mother of God mediation

I do this research

			<b>529 L. Y +11.0558d</b>	
M. Cycle 28	532 S. Y	19	548 L. Y +221.3508d	539 BLY+273d
M. Cycle 29	551 S. Y	20	567 L. Y +431.6458d= 568 L. Y + 77.464d	558 BLY+ 372.75d= 559 BLY+ 12.5d
M. Cycle 30	570 S. Y	19	587 L. Y + 287.759d	578 BLY+ 112.5d
M. Cycle 31	589 S. Y	20	606 L. Y + 498.054d= 607 L. Y + 143.8722d	597 BLY+ 212.25d
M. Cycle 32	608 S. Y	20	<b>626 L. Y + 354.1872=627 L. Y</b>	616 BLY+ 312d
M. Cycle 33	627 S. Y	19	646 L. Y + 210.295	635 BLY+ 441.75d = 636BLY+51.75d
M. Cycle 34	646 S. Y	20	665 L. Y + 420.5754d= <b>666 L. Y + 66.3936d</b>	655 BLY+151.5d
M. Cycle 35	665 S. Y	19	685 L. Y + 276.6886d	674 BLY+ 251.25 d
M. Cycle 36	684 S. Y	20	704 L. Y +486.9836d= 705 L. Y ++132.801d	693 BLY+ 351 d
M. Cycle 37	703 S. Y	19	724 L. Y + 343.096d	712 BLY+ 450.75d =713BLY+90.75d
M. Cycle 38	722 S. Y	20	743 L. Y + 553.391d= 744 L. Y + 199.2092d	732 BLY+190.5d
M. Cycle 39	741 S. Y	20	763 L. Y +409.5042d= <b>764 L. Y + 55.3224d</b>	751BLY+289.5d
M. Cycle 40	760 S. Y	19	783 L.Y + 265.6174d=	<b>770BLY+389d= 771 BLY +29 days</b>

## The Previous Table Study classified into 2 parts

### First Part : The study of the column of the modified lunar year (which equals 354.1818days)

- 1- Each 32 Metonic Cycles the last day of modified lunar year (equals 354.1818 days) corresponds with the last day of Metonic cycle which is the Sidereal Year last day where the lunar modified years equal 627 lunar years that equals 608 sidereal years perfectly.
- 2- The difference days between the Modified lunar year with the Metonic Cycle moves in Cycle and decreases as following (66.4- 55.33- 44.26- 33.19- 22.126- 11.0558 – 0.00 days) at 98 years interval (98 modified Lunar years – which equals 354.1818 days)
- 3- The modified Lunar years number for each Metonic Cycle shown in the table, and I found the following Modified Lunar Year order "19-20-19-20-19-20" repeats once with each Cycle consist of 627 modified Lunar year
  - a. That means with the last day of the Metonic Cycle No. 32 which equals 608 Sidereal Years but equals 627 Modified lunar year. after this Cycle ends, and starts the new one the modified lunar year order 19-20-19-20-19-20 will repeat once again as a mark for the new Cycle starting (this order in table marks by Gray color)
  - b. We can call the Metonic Cycle no. 32 a Cycle for the modified Lunar year with the Metonic Cycle (this Cycle in Table remarked by Yellow)

### Second Part: The Study Of The column of the Basic Lunar Year ( equals = 360 Days)

- 1- We see in the table the day common fractions spread through the cycles but these fractions unify to be one day each 4<sup>th</sup> Metonic Cycle which equals 76 Sidereal years (that similar to the Sidereal Year, 3 years equals 365 days and the 4<sup>th</sup> year is 366 days).....
- 2- but after 4<sup>th</sup> Metonic Cycle the last day of Basic Lunar year (which equals 360 days) doesn't correspond the last day of the Metonic Cycle because there are 39 days addition to the Basic Lunar years (means 76 Sidereal years = 77 Basic Lunar Years +39 days). And with the following cycles this number increases regularly by addition 39 days each 76 Sidereal years. (so after more 76 years we finds at the 8<sup>th</sup> Metonic Cycle 154 Basic Lunar Year + 78 days.... And that continues)
- 3- But at Metonic Cycle No. 40<sup>th</sup> which equals 760 Sidereal Years we find this number equals 771 Basic Lunar years + 29 days, and that means the rest days **decreased**

**from 39 days to be 29 days during period (760 Sidereal Years -76 Sidereal years = 684 years)** and this is the difference between the Metonic Cycle No. 4 and Metonic Cycle No. 40...and all that says... **EACH 684 SIDEREAL YEARS, THE REST DAYS DECREASE 10 DAYS**

- 4- Now we know that 39 days prevented the basic lunar year to end in the same day with the 4<sup>th</sup> Metonic Cycle, and we know this period 39 days decreases by 10 days each 684 sidereal years, and that means we need four Cycles which will decrease the 39 days to be (-1 day) which is the most near to the metonic Cycle.
- 5- Now we need 4 Cycles of the period 684 years where **These 4 Cycles Equals 2736 Sidereal Years**
- 6- And based on that the 2736 Phenomenon was a Metonic Cycle and this period was needed to Correspond the Basic Lunar year with the last day of Metonic Cycle (the Basic Lunar Year equals 360 days – the bible year which no one considers in modern life)
- 7- Now we saw 39 days which found in Metonic Cycle No. 4, have decreased as (10/10/10/9) at interval 684 Sidereal years for each 10 days, by that we found the 2737 Egyptian phenomenon for which we researched,
- 8- But still there are two questions, first about the number because we got the Cycle of 2736 Sidereal Years and not 2737 Sidereal Years, and the second question about the last day we need because 39 equals (10/10/10/9) and the decreasing **EACH 684 years equals 10 days** and that means the last cycle will have -1 day

We still have 2 question to answer respectively

### **The First Question**

says we got relation to the Cycle 2736 Sidereal years and not to 2737 Sidereal years phenomenon?  
And how 2736 Cycle related to 2737 Cycle?

#### **the answer**

As we know Metonic Cycle is 6939.75days

We know Saros Cycle is 6585.35 days

And the difference between both is 354.2 days

Which equals a modified lunar year approximately..

While Metonic Cycle connected to Saros Cycle completely because the Metonic Cycle is The lunar Orbit Cycle and Saros Cycle is The Eclipse Cycles that made by the Moon itself.. all that say to us, there's great connection between both Cycles..

Because there's a complete year difference between them (regardless the explanation of How that occur!)

And we see this Cycle 2736 Sidereal years needs **a complete sidereal year** to be our phenomenon 2737 ...

So Both connected with Great Relation

While the first one depends on the Metonic Cycle that means the second also does.

**The Second question about the minus day**

**39 days we found** and the decreasing is 10 days each 684 Sidereal years means after 4 Cycles (2736 Sidereal years) the number 39 will decrease to be -1 day.. means the Metonic Cycle will finish after the last Basic lunar year day with one complete day..

So each 2736 Sidereal years we have -1 day

So this Cycle will continues to be 10 (-10) days and to consume in one Cycle 3736 Sideral Years Where 27360 Sidereal years = 1440 Metonic Cycles (which we may call astronomy full day where the solar day equals 1440 Minutes).

**A comment on**

**The Egyptian Astronomic Phenomenon 2737**

I'm very surprised that there's no any study dealt "the 2737 Egyptian astronomic phenomenon"!

I see that not logical because the phenomenon tells us there were other people understood perfectly the universe astronomy and they gave us a great gift by building the great three pyramids as a references to such phenomenon, so why the modern astronomy doesn't try to compare our knowledge with theirs through encourage the studies and reports about this 2737 Egyptian astronomic phenomenon.. actually it's illogical to neglect such very great gift we didn't work for, but even got it without any payments or efforts, and its data are available to us to compare our knowledge with ancient knowledge and correct ourselves if it's necessary!!

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