

**Mars Data Analysis**  
**proves**  
**The Rest Mass Concept Is Unreal**

# Mars Data Analysis

## proves

### The Rest Mass Concept Is Unreal

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#### ABSTRACT

The Solar Group Planets Data shows, There's A Real Dependency between The Planets, in Their existences, Structures, Masses and Motions.. etc

I chose Mars Data as entrance to show The Real Dependency of Mars Basic data on Earth & Venus Data!

The Dependency of the Solar Group Planets on each other, is showed & proved by the Planets Basic Data analysis..

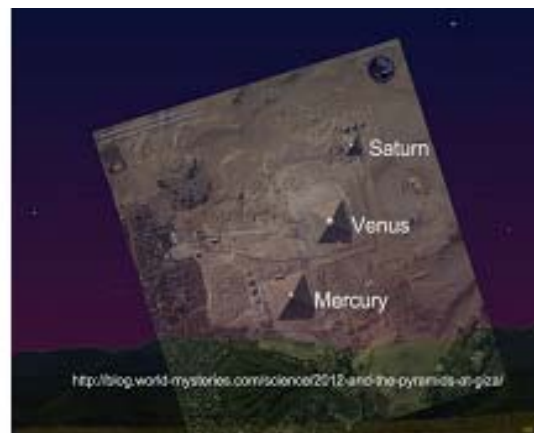
So The Planets Dependency On Each Other tells Us, That

#### **The Rest Mass Concept Is Unreal**

**I.e. The Planet Mass (Matter) is not independent**

**I.e. The Planet Mass (Matter) is created by the Planet Motion, portable by the Motion & controlled by the Motion..**

**I.e. The Planet Motion Doesn't Cause By The Gravitational Forces!**



**The Mother Of God Day  
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## **1- Introduction**

The Solar Group Planets Data Analysis shows, A Deep Real Dependency between The planets, in Their existences, Structures, Masses and Motions.. etc

Which tells us that

**The Mass (matter) is not independent**

**I.e. The Rest Mass Concept Is Unreal**

I may describe the Matter as An Ice Mountain on the sea water where the Motion is the sea water..

Another example, the Matter is similar to the computer screen mouse which considers as indicator for the Motion direction

In this paper I present the Proof that

**"The Planets Deep Dependency is Truth"**

**"Deep dependency" I.e. the dependency in their existences, Structures, Masses and Motions.. etc**

The Proof tools discussion is presented in "The Research Methods"

But the disproving of The Rest Mass Concept provides us with a universe alternative Vision as following:

## **2- Universe Alternative Vision**

This research Theory

All solar group planets, including the sun, all of them just **One System of Motions** or may be called **One Machine**, and this machine does **One Task**

**i.e.**

**All The Planets work Together In Harmony With The Sun To perform One Duty (One Job)**

**For that Reason**

**The Components of this one system (i.e. The Solar group Planets & the Sun) are depended on each other, connected with each other and suitable for each other in their existences, Masses & Motions ...etc**

**SHORTLY,**

**This Theory tells Us, That**

The solar group planets with the sun consists **One Harmonious Motions System**, and this motions system creates the Planets Masses, Orbits, Cycles and all other planets properties to be suitable to this harmonious motions system.

### **3- The Mass Alternative Definition**

The universe alternative Vision gives us a real shock because it contradicts strongly with the universe classical vision, So why we can't see the universe by such alternative vision? **That Because we consider The Mass As Independent Property!** Because we see the Motion Cycles individually thinking each Cycle related to her Mass & the mass is independent!. Where no one imagines that The Cycle Motion Was Found Already Before The Mass and The Mass is found As Indicator to refer to the Motion direction!!

Through the Universe Alternative Vision, I provide

#### **The Mass Alternative Definition:**

The Mass (Matter) is not independent property but dependent on the Motion, created & portable by the Motion.

The Mass is an accidental form, found based on the Motion, controlled by the Motion, and without Motion the Mass will disintegrate

Based on that,

**The Rest Mass Concept Is Unreal**

**&**

**The Planet Motion Doesn't Cause By The Gravitational Forces!**

**So Let's try to prove that in the following item "The Research Methods"**

**Note:** This definition doesn't tell us "the Mass has no gravitation force", it's not true, The Mass surely has gravitation force,

As the Ice Mountain has heavy weight on the Sea Water.

But the Mass is portable by the Motion and created by it (So The Mass gravitational forces doesn't cause the Planet motion), in dealing with the Planet motion we'll discuss this concept in more details.

#### **4- Methods of Research**

To prove "**The Rest Mass Concept Is Unreal**" I need to prove..

#### **There is A Deep Real Dependency between The Solar Group Planets.**

A Deep Real Dependency between The planets, means the Planets Dependency in Their existences, Structures, Masses, inclinations, and Motions.. etc

Which tells us that

The Planet Basic data is dependent on Other Planets Data

#### **I.e. The Mass Is Not Independent**

But dependent on the Motion, created by the Motion & portable by the Motion..

So, If I prove **Any Planet depends On The Other Planets Data** to form & define his Mass, Diameter, Orbital inclination, Orbital distance or Orbital period.... etc

That means I got the proof for my theory i.e. I proved that,

**The Planet isn't independent but dependent on the other planets**

**I.e. The Mass Is Not Independent**

**I.e. The Rest Mass Concept Is unreal (The research claim)**

### For Example

**Mars Diameter 6713km = Earth Diameter 12756km/ Mars Orbital inclination 1.9 degrees**

This equation tells us there's some Relation between Earth & Mars diameters..

So this can be a proof for my argument, and then I will deduce the Mars Diameter isn't independent!!

Many physicists will find **This Is Incorrect Method**, where they consider the previous Mars diameter equation is just "**A Pure Coincidence In Numbers**" and so my proof will not be acceptable from them!

For that reason I need to classify my proving process as following:

Subject	Page No.
Abstract	2
1- introduction	3
2- Universe Alternative Vision	4
3- The Mass Alternative Definition	5
4- Research Methods	6
Contents	8
<b>Part I- The Planets Data Dependency</b> In this part I provide many data sources proving the Planets Real Deep Dependency on each other, and I'll discuss the Meaning of "Pure Coincidence of Numbers". I use Mars data as entrance to show the planets Data Dependency, as following:	9
Chapter 1 / The Mars Dependency Data	9
Chapter 2/ The Proves of "The Mass is created by the Motion"	22
Chapter 2/The Planet Gravity equation	
Chapter 2/ The Planet Orbital Period Equation	
Chapter 2/ The Planet Mass Equation	
Chapter 3/ The Mass definition conclusion	44
Chapter 4/ The Planet Orbital Distance Equation	47
Chapter 5/ The Planet Orbital Inclination Equation	57
Chapter 6/ The 2737 Egyptian astronomic phenomenon as proof that, The Rest Mass concept is unreal	62
Chapter 7/ Mercury Puzzles & other Coincidences	72
<b>Part II- The Planets Deep Dependency Explanation</b> In this Part I try to explain why the planets are deeply depended on each other, and how that is occurred	78
Chapter1/ The Light Theory	79
Appendix No. 1 References	88
Appendix No.2 Historical and philosophical Data about 2737 Egyptian astronomic Phenomenon	91
Author curriculum vitae	95
University certificate	96
Gerges Equations	97
<b>Planetary Fact Sheet – Metric</b>	98



## PART I / Chapter 1

# Mars Data analysis shows The Deep Dependency between the Planets

### I- Mars Axial Tilt

Through Kepler second Law using for the solar group planets we find some interesting information as following

$$P^2 * 25 = d^3$$

Where

- **P** : The Planet orbital period
- **d** : The Planet orbital distance
- **25**: Mars Axial Tilt

The results are shown in the following table

Planet	$P^2$	* 25	= $d^3$	Error
Mercury	$(88)^2$	<b>*25</b>	$(57.9)^3$	0.2%
Venus	$(224.7)^2$	<b>*25</b>	$(108.2)^3$	0.3%
Earth	$(366)^2$	<b>*25</b>	$(149.6)^3$	0
Mars	$(687)^2$	<b>*25</b>	$(227.9)^3$	0.3%
Jupiter	$(4331)^2$	<b>*25</b>	$(778.6)^3$	1.4%
Saturn	$(10474)^2$	<b>*25</b>	$(1433.5)^3$	1%
Uranus	$(30589)^2$	<b>*25</b>	$(2872.5)^3$	1.3%
Neptune	$(59800)^2$	<b>*25</b>	$(4495.1)^3$	1.5%
Pluto	$(90588)^2$	<b>*25</b>	$(5870)^3$	1.4%

The table shows 25 as a fixed number for the 2<sup>nd</sup> Kepler law (Planets data sheet is found at last page of this Paper)

### 25 Is The Mars Axial Tilt

Surely if Mars Axial Tilt considers **the same constant number** for the solar group planets through Kepler 2<sup>nd</sup> Law, it's a Real prove there's A Dependency Between the Planets each other.. but the physicists considers this just "Pure coincidence", So we'll discuss that soon in this chapter.

## II- Earth / Mars Dependency

Mars Data shows his Deep Dependency on Earth & Venus Data, as we'll see now, but I should refer to the meaning of this dependency between Mars & Earth.. each planet is created based on his dependency with all solar group planets. i.e. There's always a deep dependency between any two planets in the solar group. But I found Mars Data has a clear deep dependency on the Earth & Venus, for that I use the Mars /Earth Dependency data as entrance to explain the idea and then the discussion may extend later.

### A- In following I show some of Mars Basic Data depending of the Earth Data:

1. **Mars Diameter = Earth diameter / Mars orbital inclination**  
(6713.6 = 12756 / 1.9 ....error 1.1%)
2. **Mars orbital period = Earth orbital period\* Mars orbital inclination** (687 = 365.25 \*1.9)
3. **Mars Axial Tilt = Mars orbital inclination \* (Earth Diameter/ Moon Diameter)<sup>2</sup>** (25.2= 1.9 \* (3.66)<sup>2</sup>)
4. **Mars Gravity = (1.9)<sup>2</sup> (0.642/5.97) \*9.8 = 3.7** (Error 2.8%)  
Where 1.9 **Mars orbital inclination**  
0.642 Mars Mass / 5.97 Earth Mass /9.8 Earth Gravity
5. **(square root of (Mars Axial tilt /Earth Axial Tilt)) = (Mars Day/ Earth Day)** (25/23.44)<sup>1/2</sup> = (24.7/24)
6. **Earth Orbital Cycle \* (Earth day/ Mars Day) = Moon Cycle**  
(365.25 (24/24.7) = 354 days)
7. **Mars orbital Cycle 687 days defines 1.9 days/ degree (687 days /360 degrees = 1.9) where (Mars orbital inclination =1.9 degrees)<sup>1</sup>**

<sup>1</sup> - I wish the reader doesn't be annoyed because of the equation No. 7, where the 1.9 presents two different units, which tells us it's to be a consistent equation, but such equations are necessary for the claim explanation, So when we reach to the discussion it will be clear how this equation can be consistent

**B- In following I show some of Mars Basic Data depending of Venus& Moon Data:**

- 1- **Mars orbital inclination** = Venus orbital period / Venus day period (244.7/116.8= 1.9)
- 2- **Mars orbital inclination** = (Venus Complementary Axial Tilt)<sup>2</sup> / Venus orbital inclination ((2.6)<sup>2</sup> /3.4 = 1.9) (Note Venus Complementary Axial Tilt = 180-177.4 where 177.4 is Venus Axial Tilt)
- 3- **Mars orbital inclination** \* The complementary Venus Axial tilt =Moon orbital inclination (1.9\*2.6=5.1)
- 4- Mars Diameter = Moon Diameter \* **Mars orbital inclination** (6792= 3475\*1.9)
- 5- Moon Sidereal year (27.3\*12) = 327.6 = (1.9)<sup>4</sup>\*25.2 (**1.9 Mars orbital inclination** & 25.2 Mars Axial Tilt)
  
- 6- **Mars Orbital distance = Mars/ Venus distance \* Mars Orbital inclination** (227.9 = 119.7 \* 1.9).

We should pay attention to this last equation, because all the planets orbital distance can be defined based on this equation!

This equation has 3 elements which are

- A- 119.7 millions km the distance between Venus & Mars
- B- 1.9 Mars orbital inclination
- C- 3.4 Venus orbital inclination

Because the distance is defined between both of the two planets (Mars & Venus) and so each planet contributes by his orbital inclination value as we see in next table,

## The Sun / Pluto distance is classified based on Venus/Mars distance

Planet	The planet orbital distance equation	Registered (error)
Mars	<b>Mars orbital distance</b> $227.9 = 119.7 * 1.9$	0
Jupiter	<b>Jupiter orbital distance</b> $778.6 = 119.7 * (1.9)*(3.4)$	0.6%
Saturn	<b>Saturn orbital distance</b> $1433.5 = 119.7 * (1.9)^2*(3.4)$	2.4%
Uranus	<b>Uranus orbital distance</b> $2872.5 = 119.7 * (1.9)^3*(3.4)$	2.8%
Neptune	<b>Neptune orbital distance</b> $4495 = 119.7 * (3.4)^3$	4.6%
Pluto	<b>Pluto orbital distance</b> $5870 = 119.7 * (1.9)^6$	4%
<b>The Rest Planets</b>		
Mercury	<b>Mercury orbital distance</b> $57.9 = ((3.4)/(1.9)^3)* 119.7$	2.4%
Venus	<b>Venus orbital distance</b> $108.2 = ((3.4)/(1.9)^2)* 119.7$	4.1%
Earth	<b>Earth orbital distance</b> $149.6 = (1.9)^{1/3} * 119.7$	0.9%

## Study of

### The Venus/ Mars Distance Table

#### 1- Why This Equation tells Us The Planets Are Depended On Each Other?

- Because I defined **specific 3 values** (119.7 m k which is Mars/ Venus distance, 1.9 degrees which is Mars Orbital inclination & 3.4 Venus Orbital inclination) So through just 3 Values, it's possible to define the orbital distances for all solar group planets!! The planets orbital distance interacted with Thee Constants to produce 10 values correctly, and that can't be occurred unless the planets themselves are related to each other in their orbital distances!
- I started with Mars to Pluto, because these planets are found after the Venus/ Mars distance which we use as a measurement, and then I completed the rest planets to show How the Planets are related to each other..
- In all my Equations & Tables I used the following specific method. I define specific numbers in the basic equation without a specific form for these numbers using, as we saw in the Venus / Mars distance Table, I defined 3 values but didn't define the form of this 3 values using, I left each planet to use the values as possible to reach to the convenient data. But I can't explain why I didn't define a specific form for the three values using here, I should explain that in the Planet Mass equation, because it's clear enough there, let's discuss this question there (at end of this chapter).

## Mars Data Analysis Comment

By many ways I explained there's A Real Dependency for Mars data on Earth & Venus Data..

But the physicists will not accept this data analysis and they will claim this numbers similarity just "Pure Coincidences" ?

Although there are many different forms for this Dependency in Mars Data..

But the physicists will consider them as just "Pure Coincidences"!

For that reason I provide the analysis of "the Solar Eclipse Phenomenon"

Trying to explain the meaning of "Pure Coincidences of Numbers"

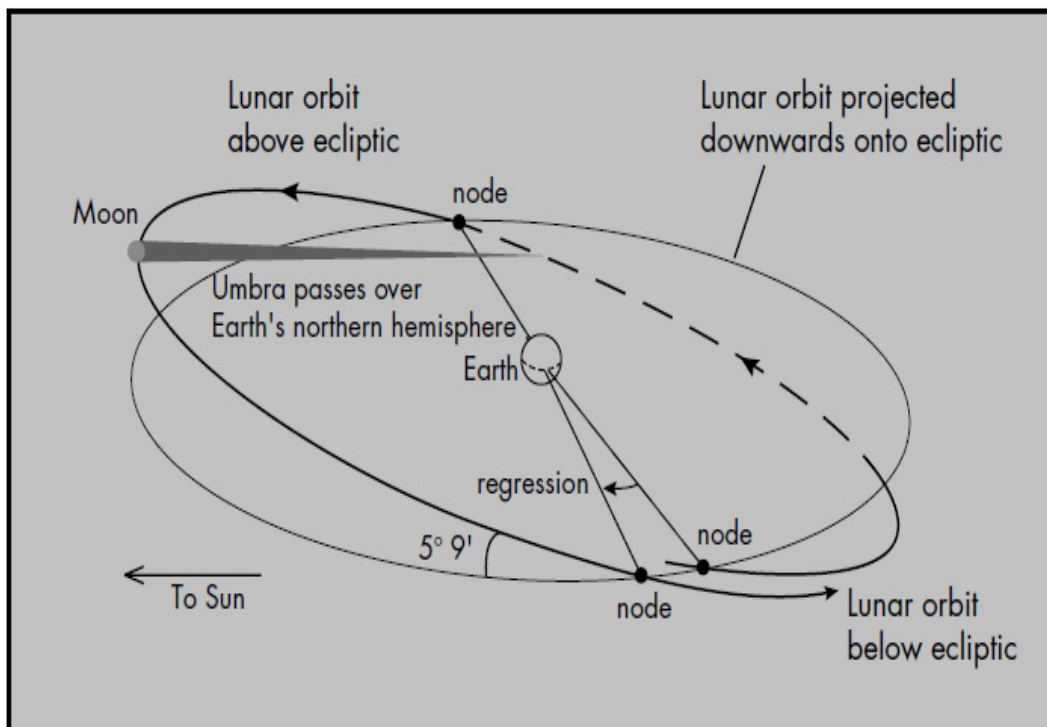
As following

### III- The Solar Eclipse Data Analysis

The Sun size = 400 folds the moon size, but the Sun/ Earth distance = 400 folds the Moon/ Earth distance, for that reason the people on the earth see the sun size equals the moon size approximately, that enables the total solar eclipse to be occurred before our eyes!

**Is it just "a pure coincidence"?** or there's a physical reason caused the Sun/ Moon sizes rate = the Sun / moon distances to the Earth rate, to enable the total solar eclipse to be occurred?!

The total solar eclipse appears as a simple pure coincidence, but the data analysis shows that, there are several many coincidences under its cover which form a real puzzle ... as following:



**Fig. 1.5.** The plane of the lunar orbit is tilted by just over  $5^\circ$  with respect to the ecliptic, i.e. the Earth's orbit around the Sun. In addition, the line of the nodes (the plane intersection points where eclipses occur as Earth, Moon and Sun are in line) regresses clockwise by  $19^\circ$  per year. This regression gradually shifts the two windows per year when eclipses can occur, earlier, by about 19 days per year. As shown in the diagram, when the nodes are at right angles to the Sun–Earth line, the Moon's umbra will sail way above (or below) the Earth at New Moon.

Quoted from "Total Solar Eclipses and How to Observe Them ....Martin Mobberley' P.11

## A- Eclipse Data Analysis Summary

- 1- As I mentioned before the sun/moon sizes rate = their distances rate to the Earth, that's our first coincidence
- 2- The sun size = 400 folds moon size =  $3.66 \times 109$ , where 3.66 is the Earth /moon sizes rate, and 109 is the Sun/ Earth sizes rate, i.e. Number. 400 of the size, includes the three planets sizes rates together!
- 3- The total solar eclipse umbra length = 384000 km and the lunar umbra length = 1.4 million km where  $(1.4/0.384 = 3.66)$  ( $3.66 = \text{Earth/moon size rate}$ ) but that means the earth has such **Specific Moon whose Circumference caused an umbra length = the distance between the moon and the earth!!** Regardless the Earth location!!
- 4- Also as we know the Metonic Cycle (which is moon Cycle) depends on the solar Cycle (19 sidereal years)!. And because Metonic Cycle ends on the last day of the 19 Sidereal years (**first condition**) and because the difference between the Lunar year 354.3 days and the sidereal year 365.25 days is 11 days (**the second condition**) for that the people were enabling to create the solar lunar calendar!
- 5- The sun cycle is 365.25 days as the Earth Cycle! Where the sun give the Earth the same face always, but the Earth Cycle  $365.25 = \text{Lunar sidereal cycle } 27.3 * (3.66)^2$  (3.66 is the Earth/moon sizes rate), so it's Logical the Earth has a cycle 365.25 days depending on the Moon Cycle, but why the Sun has the same Cycle period?! "Pure coincidence" (Note: may be that



the reason for the Metnoic Cycle which is a moon Cycle to be depending on the sidereal years & Not on Lunar years)

- 6- Note that the Earth /moon sizes rate is 3.66, and as I mentioned the Earth Cycle 365.25 days depends on this rate where  $365.25 = 27.3 * (3.66)^2$ , but Not just the Earth Cycle depends on the Lunar Cycle by **This Rate**  $(3.66)^2$  but also **The Earth/ Moon Gravities Depend On This Same Rate!!** where the Moon gravity =  $(3.66)^2(\text{moon mass/ earth mass}) \times 9.8$  earth gravity = 1.6 which is the moon gravity!!!... Note! the **Sun itself follows this same equation** by which the sun gravity =  $274 \text{ m/sec}^2$ . (these also pure coincidences) (The planet gravities equations will be studied in Chapter one/ Part one of this paper) (**NOTE please the value  $(3.66)^2$  repeated also in Mars Data which tells us this relation value refers to a relation extending through many different Planets!**)

## **Comments On The Eclipse Data Analysis**

It's easy to believe all this data just coincidences!

But why we are sure all this data just coincidences?

Is it impossible, there's a mistake in our vision for the universe, and this mistake leads the data to be seen before our eyes as "Pure coincidences"

This paper try to show **Another Universe Vision**, through the comparison between our principle basics with the Solar group Data And through this alternative vision we may see much better our universe. Any way let's try to see the solar eclipse in more depth as following:

1- We know How the Solar eclipse works, we know that there's a cycle for the eclipse events called Saros continues for around 18 Sidereal years, and this Cycle depends on the Lunar Cycle continues for 19 sidereal years Called Metonic Cycle . in Metonic Cycle (as explained in the Previous figure) **The line of nodes regresses 19 degrees yearly**, for that **the complete Cycle needs 19 years**, and **this regression for 19 degrees every year causes the regression 19 days for the eclipse events yearly!!** (Here The Pure coincidence are found clearly and easily! : **19 Degrees, 19 Years & 19 Days, Why These Numbers Aren't "Pure Coincidences"?**)

2- Why these very similar numbers Not just coincidences in Numbers as thousands we found in the Planets Geometries which have no physical Meaning? But they aren't coincidences because we have a real explanation for all numbers 19 years, 19 degrees & 19 days, we know these numbers are resulted by the same process. Now this "Pure Coincidence" will be an explained physical phenomenon, written in

the physics books and teaching to the students!! Why? **Because We Understand The Eclipse Process!!** i.e. When we don't understand the physics reason for such "Pure coincidences of Numbers" we consider them just "Pure coincidences", and leave them easily without explanations!

3- I have another example related to Mercury.. Mercury Synods Saturn, Uranus, Neptune & Pluto once each 88 days where Mercury orbital Period is 88 days! Why?! It's "Pure coincidence", No. (Now again it's clear the similar Numbers "pure coincidences" has physical explanation. Where Copernicus has equation to define the synodic period based on the Sidereal period ( $\text{synodic period} = 1/(1/SP1 - 1/Sp2)$  where Sp1 is Sidereal period of first planet and Sp2 is Sidereal period of Second planet. We should note the value in denominator should be positive). By this equation we'll find the Synodic Period between short orbital period planet as Mercury (88 days) and very long period planet (as Saturn, Uranus, Neptune & Pluto) should be equal to the short planet orbital period because the value  $1/Sp2$  will equal Zero. No once again we have clear explanation why the "pure coincidences" are found.

4- I have another one, Mercury Synods The Earth once each 116 days But the Venus Day is 116.8 days &  $116.2\pi = 365.2$  which is the Earth Cycle Why?! So It's absolute wrong to consider that just "Pure coincidence", surely there's a relation between the Mercury/ Earth synodic period with the Venus Day & Earth Cycle! But we don't understand How does the Gears works and for that we don't see the relation!! (Note  $116.8 = 176 \text{ "Mercury Day"} / 1.5$  where the Mercury Orbital Period 88/ Mercury rotation period  $58.6 = 1.5!$ )

- 5- I have one more puzzle related to Mercury! " $(\Pi+1) * \text{Mercury orbital period} = \text{Mercury orbital circumference distance!!}$  What's the Geometrical meaning of  $(\Pi+1)!!$  I don't understand the geometrical meaning, for that I will consider this is "Pure Coincidence" (by Numbers  $(\Pi+1)* 88 = 2 \Pi*57.9 = 364)!!!^2$
- 6- But why we don't understand the other universe motions?! if we understood the eclipse motion?! **(first Reason)** Because we consider **The Mass as the planet independent characteristic** property, So we don't see the solar group as **A System Of Harmonious Motions**, but we see all these motions are related to their Masses individually, where no One Imagines The Motion Was Found Before The Mass and regardless the Mass, and the **Mass is found just to refer to the Motion direction**. So we can't see **the Harmony** between these Planets Motions and **for that reason we don't know THE DUTY which the planets motions is performed!** ( i.e., we don't know the Planet Cycle result)
- 7- **(Second Reason) the Meaning of the unit.** For example what does mean "1 second", when we study the solar day production process? It's something as one looks at a mirror! The "1 second" is the result of Earth Cycle around her axis in front of the Sun, but because the Cycle still not complete yet, we don't know the meaning of solar day and we can't find the meaning of the "1second", in this Case we would try to find another definition till the earth complete her cycle around her axis, now the Meaning of "1second" may become part of the earth axis degrees! Or part of the earth rotation radius!! Now the meaning of "1

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<sup>2</sup> - Actually Mercury Puzzles no one can leave without explanation!, So I should try to find the correct explanation for this very strange many "Pure Numbers coincidences" at the End of this Part in Chapter 7 titled "Mercury Puzzle and other Pure Coincidences"

second" is absolute absent because the meaning "1 second" found after the solar day is produced ...Here we will face the "Pure Coincidences" of numbers which show **similar Numbers** but have **different Meaning**, as we saw in Mars Data 1.9 days / degree of his Cycle (687 days /360 degrees = 1.9) but Mars Orbital inclination is 1.9 degrees .. The Same Number But Not The Same Meaning! We remember 19 degrees & 19 days where we understood perfectly the eclipse process! But with Mars we don't understand his process! So it will be just "Pure Coincidence"!! which I'll leave without explanation! Easily we should classify each process data & understand How this process is doing, and that can be done if we understand the universe basic operations<sup>3</sup>!!

8- For Sure no one can call support from Bode Law in all its forms, where the physics considered Bode Law is a false & misleading law, spite Bode Law shows the relation between many planets, but Bode Law was refused without trying to explain why 6 planets follow this Law and 3 planets don't follow?!

9- **The last point** here is the argument. I argue that, the similar numbers which are found in the Planets Geometries are connected numbers formed by the planet motion (as we saw in the 19 years, 19 degrees & 19 days of the eclipse motion), I argue all similar numbers can be explained clearly if we understand the universe motions correctly, and **because we don't understand the universe motions correctly we may use these "pure coincidences numbers" to lead us to understand the universe motions.**

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- <sup>3</sup> In many physics books the authors claimed that the lunar trajectory definition is very difficult and can't be reachable correctly, which can be a proof that we don't understand the universe motions correctly.

## Chapter 2

### **1<sup>st</sup>- The Proves That "The Matter (Mass) Is Created By The Motion"**

In this chapter I provide many astronomic phenomena that supports my claim "the Matter (Mass) is created by the Motion" as following:

1- **The Matter is found in a Motion:** all the planets around us just Matters are found in Cycles & Motions, no any of them appears as free or independent Matter (Mass). So why the gravitation theory describes the mass is independent property & found regardless the Motion?! where can we find a Mass (Matter) without motion? Even for the creatures bodies Matters (the animal has a blood cycle for his body, the planet has a juice cycle)

**So the Motion is the essential component of the Matter (Mass)**

### **2- The Matter (Mass) Is Found In Dual Forms!**

**(i.e. 2 opposite forms of the same creature),**

There are electron and positron!

There are female & male!

There are Matter & Antimatter

Two opposite forms of the Masses,

**So How the Matter (Mass) can be INDEPENDENT if there's another opposite form?!**

**The Matter (Mass) is produced based on something which can create the TWO FORMS,**

I guess it's logical conclusion.

And the collision between the Electron & positron produce light!! So, that what I'm saying, the electron & positron Matters return to their origin once again. I want to explain that the Matter (Mass) is created by the Motion, and the Motion attributes to the light

So why The Mass is independent?!

- 3- **The Planet Matter (Mass) structure formed in Spherical Form to be suitable with The Planet Motion rotation round his Axis.** For that reason The Planet is a spherical form, and no any planet is in squared or triangular form, because the spherical forms are the best suitable forms for the Planets Motions (the planet rotation around his Axis). Someone claims the Motion ease in Space doesn't depend on the Planet geometrical form, and this idea is incorrect, because we have no Equation connected the planet geometrical form with his orbital distance, and I guess the non-spherical Planet needs longer orbital distance, that which I need to prove later (where I provide a proof the Sun/Planet distance depends on the Planet diameter in my Equation to define the Planets orbital distances which I provide in Chapter four/ Part One of this paper). But Also others claim the cylindrical forms can be suitable as much as the spherical forms, and this idea also is incorrect because, we have no a register for the planet Motions history, so if in case the Planet Axis turns 90 degrees, in any very special case and the Planet had to continue his motion, the spherical form will be very suitable but the Cylindrical form will not work. (Note there's many planets regresses in their motions in behaviors not explained completely, So it's not some strange idea to turn the Planet Axis 90 degrees in special case and to continue his motion)
- 4- **The Matter (Mass) can be created by the Light.** As we know from Anderson experiment 1934 when he produced Electron & positron from Gamma Rays (1.2 Mev), and so easily we see the Matter (Mass) is a product and not origin i.e. the Mass isn't independent.

- 5- **The Universe continuous Motion** tells us the Motion is the basic factor in the Universe and Not the Matter (Mass). Actually the gravitation theory definition of the Mass is just against the Universe continuous Motion (Specially the inertia definition)
- 6- **The Universe Wave Nature** which is found in the Matter, energy, motions and all other Universe components, this Wave nature tells us **the Universe has one source**. i.e. all the universe origins from one Source. So we may consider that the Motion is the origin of this universe, and the Motion characteristic property is the wave nature. So when the Matter is created by the motions, the Motion nature still showed and seen in the Matter.
- 7- **The Human & Universe Harmony**: For example why the creatures are sleeping at Night and wake up during the Day? Because their bodies made of light motion (Matter is created by the motion) and when the sun "their source" is absent, the creatures feel the fatigue and sleep. This process produces the harmony between the universe & creatures, where there's no light, the human should learn Not to work!! If The Creatures Bodies Masses Are Independent How Such Harmony Can Be Performed?!!
- 8- **The Planets Gravities Equation**. This equation we'll study in details here, where we'll find that, the Planet Gravity depends on The planet relative Mass density, which makes the Earth diameter/ Planet diameter rate effects in the planet gravity equation. So we find the diameters rate effects on the Planet gravity which proves that "the Mass isn't independent" (Note Please, **The Sun gravity itself follows this same equation**).. in following Table we study this equation in details..



## The Planets Gravities Equation<sup>4</sup>

### 1<sup>st</sup> Equation

**The Planets Gravity=**  
**= (Earth Diameter/ Planet Diameter)<sup>2</sup>\* (Planet Mass / Earth Mass)\* Earth Gravity**

### THE PLANETS GRAVITIES TABLE

Planet	Equation	Resulted	Registered	Error
<b>The Sun</b>	$(\text{Earth/Sun diameters rate})^2 (\text{Sun Mass/ Earth Mass}) * \text{earth gravity}$ $= (1/109)^2 * 333000 * 9.8 = 274$	<b>274</b>	<b>274</b>	<b>0</b>
Moon	$(3.66)^2 \times (0.073 / 5.97) \times 9.8$	1.6 m/sec <sup>2</sup>	1.6 m/sec <sup>2</sup>	0
Mercury	$(2.61)^2 \times (0.23/5.97) \times 9.8$	3.7 m/sec <sup>2</sup>	3.7 m/sec <sup>2</sup>	0
Venus	$(1.0538)^2 \times 4.87 / 5.97) \times 9.8$	8.9 m/sec <sup>2</sup>	8.9 m/sec <sup>2</sup>	0
Earth	9.8	9.8	9.8	0
Mars	$(1.878)^2 \times (0.642 / 5.97) \times 9.8$	3.7 m/sec <sup>2</sup>	3.7 m/sec <sup>2</sup>	0
Jupiter	$(0.0892)^2 \times (1898 / 5.97) \times 9.8$	24.7 m/sec <sup>2</sup>	23.1 m/sec <sup>2</sup>	6.9%
Saturn	$(0.10582)^2 \times (568/5.97) \times 9.8$	10.44 m/sec <sup>2</sup>	9 m/sec <sup>2</sup>	16%
Neptune	$(0.2575)^2 \times (102/ 5.97) \times 9.8$	11.1 m/sec <sup>2</sup>	11 m/sec <sup>2</sup>	0.9%
Pluto	$(6.97)^2 (0.0131 / 5.97) \times 9.8$	1.04 m/sec <sup>2</sup>	1.1 m/sec <sup>2</sup>	5.4%

**Note** The Big errors caused by using of the squared values i.e. Saturn error isn't 16% but just 4% and Jupiter error isn't 6.9% but just 2.6% .. etc)

<sup>4</sup> I provide in this paper my 5 Basic Planets Equations (written all together in last page before the planet data sheet at the end of this Paper), these Equations I found them, and these equations are not found in any physics book for that I call them "**GERGES EQUATIONS**", these equations define the planets gravities, Masses, orbital distances, & orbital inclinations. And also I provide in this paper many other forms for the Planets relations but these 5 Planets Basic Equations are the Most correct and accurate equations, where the other forms are found to refer to the planets relations & Dependency.

## The Planets Gravities Table Comments

- A- Why the gravity equation is working? **If Each Planet Mass is independent**, why such equation can be valid?! This equation tells us **The Mass isn't independent**, because of that the rates between the sizes & masses of one Planet can effect to define other Planets gravities.
- B- This equation proves easily there's a dependency between the Planets Masses with each other, i.e. the Planets Masses aren't independent.
- C- **The Sun itself follows this same gravity equation and that's a great reference proving that the Mass is Not Independent**, but the Mass is produced by the Planet Motion.
- D- Through this equation we may explain why the Saturn has such small gravity less even than the earth gravity, spite of his mass around 95 folds the earth mass, where the reason is the Earth/Saturn circumferences rate, now because this number is (0.0892) and even we need the squared value which equal (0.00795664) this number, that caused the Saturn gravity to decrease so much... **and that support the idea the Mass isn't independent.**

## 2<sup>nd</sup> - The Proves That "The Matter (Mass) Is Created By The Motion"

9- **The Mass & Experiment.** It's very hard to prove the Matter (Mass) is created by the Motion through the lab experiments, Because our body itself are Matters (Masses) made of Motions, and we see the Matter around us as a person looks at himself in Mirror! We need outer source of knowledge to know this information.. exactly as someone tries to measure the ship speed in which he travels by the ship tools!! It's impossible to get it, and he needs to make his measurement related to the Sea itself.. for that reason I use the solar group planets Data.

10- In following I present the planet Period Equation which proves the planets are depended on each other to define their orbital Cycles Periods, this item has 2 parts (A & B) in item B I provide the equation with its proves & comments, but in A I wish to refer to some deep contemplation related to our Solar group planets

### **a. Why the planets should depend on each other to define their orbital periods, distances...etc? why that's important?**

How do we imagine the planets move in their Cycles? How can each planet move in his rotation trajectory if he's independent from the other planets ?! There's something wrong in deep. It can't be done! Where they all rotate around the same Sun, they follow similar trajectories! It will be something very strange to consider they are independent from each other. This comment not to provide a proof to support my claim, this comment talks to the human mind! How can create such Cycles for independent players?! Even for cars you can't accept for trunks to move in bicycles roads! It's wrong in basic description!

But if we accept the planets are depended on each other

**i.e. The Matter (mass) is NOT independent.**

B- **The Planets Orbital Periods Equation**

**2<sup>nd</sup> Equation**

**The Planet orbital Period= The Previous Planet  
period \* his orbital inclination (or Axial tilt)**

Planet	His equation	Registered	Error
Mercury	The orbital period 88 (has no previous planet So <b>Mercury considers the basic unit</b> )	88	0
Venus	Venus Period = 88 * 2.6 = 228.8 days	days 224.7	(1.8%)
	88 Mercury orbital period (The previous planet)  2.6 the Venus axial Tilt complementary (where Venus Axial Tilt is 177.4 so the complementary = 180-177.4 = 2.6)  <b>Venus follows the Equation perfectly</b>		
Earth	Earth Period = 224.7 * 1.6 = 360.6	360.6	365.2 (error 1%)
	224.7 is the Venus orbital period (The previous planet)  1.6 is (2.6) <sup>1/2</sup> where 2.6 is the Venus Axial tilt complementary  <b>Earth follows the Equation perfectly</b>		
Mars	Mars Period = 365.25 x 1.9 = 693.9	693.9	687 (1%)
	365.25 the Earth Period (The previous planet) 1.9 Mars orbital inclination  <b>Mars follows the Equation perfectly</b>		
Jupiter	Jupiter Period = 687 * (1.9) <sup>2</sup> * (3.1) <sup>1/2</sup> = 4364.9 days	4331	0.7%
	Jupiter uses		

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	687 Mars period (The previous planet) 1.9 Mars orbital inclination according to the equation 3.1 Jupiter Axial Tilt  <b>Jupiter follows the Equation perfectly</b>		
Saturn	Saturn Period $4331 * 2.5 = 10827.5 \text{ days}$	10747 days	0.7%
	4331 Jupiter period 2.5 Saturn orbital inclination <b>Saturn follows the Equation perfectly</b>		
Uranus	Uranus Period = $10747 * (97.8/26.7) * 0.8 =$ $10747 * 2.93 = 31492$	31492.3	30589 (error 2.9%)
	10747 Saturn orbital Period 26.7 Saturn Axial Tilt according to the Equation 97.8 Uranus Axial 0.8 Uranus orbital inclination		
Neptune	Neptune Period = $= 30589 * (97.8/(28.3 * 1.8)) = 58728$ days	58728 days	59800 (error 1.7%)
	30589 Uranus period according to the equation 97.8 Uranus Axial Tilt according to the Equation 28.3 Neptune Axial Tilt 1.8 Neptune Orbital inclination		
Pluto	Pluto Period = $59800 * 1.8 * 0.8 =$ 86112	86112	90588 (error 4.9%)
	59800 Neptune Period 1.8 Neptune orbital inclination 0.8 Uranus Orbital inclination		

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## The Planets Orbital Periods Equation Comments

### 1 -The Equation Factors

This Equation uses the following factors

- A- The Previous planet orbital period
- B- The orbital inclinations & Axial tilts of the required planet & his previous.

As a rule when we use any planet Data, the orbital inclination & Axial Tilt of this Planet become free option to the planet equation to reach to the convenient value..

### 1- Why this Equation & Table tells us some Truth?

- The Equation is valid for all the Planets where no any planet used outer numbers except Pluto used the Uranus orbital inclination in addition to Neptune orbital inclination, which proves there's a real rule controls the planets orbital Periods which no one can create if not found by the Planets Creator Himself Basically.
- The planet orbital period depending on the previous planet orbital inclination is a logical idea because each planet depends & connects with his previous Planet to find his rotation area, So the previous planet orbital inclination effects on the planet orbital period & distance as we'll see in Part 1/ chapter 4.
- This equation is easy and clear where shows to us there's a real Dependency between each planet with his previous Planet that supports the research claim the planets Deep Dependency on each other

**This Equation is a crucial proof that  
"The Planet Matter (Mass) is not independent"**

- 11- **In Chapter 6 of Part 1**, I Provide the Egyptian Astronomic Phenomenon 2737, where I proved that this Cycle 2737 depends on Metonic Cycle, **So How the gravitation theory can explain the effect of the Moon little Mass on Saturn (the very far planet), to force Saturn to follow the Moon trajectory!!**
- 12- In the following I provide the Mass equation, which can prove easily that the Mass isn't independent as following:

## The Planet Mass Equation

### 3<sup>rd</sup> Equation

$$\text{The Planet Mass} = 0.073 * 10^{24} \text{kg (moon Mass)} * 224.7 \text{ (Venus orbital period)} * F(x)$$

(where F(x) is a function in the required Planet/ moon diameters rate with orbital inclination & Axial Tilt of The required Planet, Venus & Moon)

## The Planet Mass Equation Study

### First: The Equation Factors

The equation uses basic factors to define the planet Mass, these factors are the following :

- a. The Moon Mass  $0.073 * 10^{24}$  kg
- b. The Venus orbital Period 224.7 day
- c. The required Planet / Moon diameters rate
- d. Orbital inclinations of the three planets (the require Planet, Venus & Moon) as free options
- e. Axial Tilts of the three planets (the require Planet, Venus & Moon) as free options

### Note

- To define any Planet Mass I use the three planets orbital inclinations & Axial tilts, that because Venus & Moon I use their Data in the Basic equation, for that reason it's possible to use their orbital inclinations & Axial tilts additionally because we already use their data. For the same reason we use the orbital inclination & Axial Tilt of the required Planet because we try to define his Data.



- I don't create a specific form for the function  $f(x)$  because the Mass (Matter) is created by the Motion according to my Basic hypothesis, and I proved by many ways that we don't understand the planets Motions, for that I can't define specific form for the function  $f(x)$ . I restricted the function  $f(x)$  to use specific values (Diameters rate as a basic value of  $f(x)$  and the orbital inclinations with the Axial Tilts for the three planets as free options) to reach to the convenient required planet Mass value, and by such way we depend on specific Values to define the Masses which may prove **These Masses Aren't Independent**, but because we don't understand the Planet Motion I can't define **This Dependency** in any form.
  
- Here we should remember the question from Mars/ Venus distance, which was why I didn't create a form to use the Basic Values in the Planet distance definition based on Mars/ Venus distance. And the answer is the same, where the planets distances depend on specific 3 values that means the Planet distances Aren't Independent, but Because we don't understand the Planet Motion I can't define **This Dependency** in any form.

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**Second: Why this equation expresses really about the Planet Mass?!**

**And Why this equation considers a proof that :**

**The Mass Is Not Independent?**

1. Because all The Solar group Planets used **Constant Numbers** (which are  $0.073 \cdot 10^{24}$ kg (moon Mass), 224.7 (Venus orbital period), Venus & Moon Orbital inclinations & Axial tilts, all of these **6 Values Are Constants**). And in addition to **these constant numbers, The required planet uses his own diameter rate, orbital inclination & Axial Tilt**. So 6 Constant numbers and 3 Variables define the Planet Mass which **Proves The Mass Is Not Independent**.
2. The previous 6 Values (all the orbital inclination & Axial Tilts) all of them are free options for the Planet to use any of them to reach to the Mass convenient value, and I follow this way because the Mass is depended on the Motion and we don't understand the Planet Motion, for that I left the Planet free to reach to his Mass value in freedom which helps us to reach to the correct value and to learn us some information about the planet motion
3. By using 6 constants & 3 Variables, that means **all Planets Masses are related together & connected with each other i.e. The Planet Mass is Not independent**.
4. Also When the Planets Masses depend on his own planet orbital inclination or Axial tilt (his motion variables) regardless the 6 constants, that means **The Planet Mass depends on the Motion i.e. The Mass depends On The Motion And The Mass It's Not Independent**.
5. Also When the Planets Masses depend on the Planet diameter rate to the moon diameter that means **"The planet Mass is Not independent"**.

**The Solar Group Planets Masses Table Used The Mass Equation**

**The Planets Masses Equation (Again)**

**5<sup>th</sup> Equation**

**The Planet Mass=**

$$= 0.073 * 10^{24} \text{kg (moon Mass)} * 224.7 \text{ (Venus orbital period)} * F(x)$$

**(where F(x) is a function in the Planet/ moon diameters rate with orbital inclination & Axial Tilt of The required Planet, Venus & Moon)**

The Planet	The Mass = $0.073 * 224.7 * F(x)$	Result	Registered	Error
Mercury	<b>Mercury Mass =</b> <b><math>(0.073 * 224.7) / (1.404 * 7 * 5.1) = 0.327</math></b>	0.327	0.330	0.9%
	1.404 Mercury/ Moon diameters rate 7 Mercury orbital inclination 5.1 Moon orbital inclination			
Venus	<b>Venus Mass =</b> <b><math>(0.073 * 224.7) / 3.48 = 4.713</math></b>	4.713	4.87	3.2%
	3.48 (Venus/ moon) diameters rate			
Earth	<b>Earth Mass = <math>0.073 * 3.66 * 224.7 = 60.03</math></b>	60.03	59.7	0.5%
	3.66 (Earth/ moon) diameters rate			
Moon	<b><math>0.073 * 10^{24} \text{kg}</math></b>			
Mars	<b><math>(1.95 * 224.7 * 0.073) / 1.9 * 25.2 = 0.66</math></b>	0.668	0.642	4%
	1.95 (mars/ Moon) diameters rate 1.9 Mars Orbital inclination 25.2 Mars Axial Tilt			
Jupiter	<b>Jupiter Mass =</b>	1786	1898	5.9%

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	<b><math>(0.073 * 41.14 * 224.7 * 3.44) / 1.3 = 1786</math></b>			
	41.14 Jupiter/ moon diameters rate 3.44 Venus orbital inclination 1.3 Jupiter orbital inclination			
Saturn	<b>Saturn Mass=</b> <b><math>0.073 * 34.68 * 224.7 = 568.8</math></b>	568.85	568	0
	34.68 (Saturn/ moon) diameters rate			
Uranus	<b>Uranus Mass =</b> <b><math>(0.073 * 14.71 * 224.7) / (0.8 * 3.44) = 87.6</math></b>	87.6	86.8	1%
	14.71 (Uranus/ moon) diameters rate 0.8 Uranus orbital inclination 3.44 Venus orbital inclination			
Neptune	<b>Neptune Mass=</b> <b><math>(0.073 * 224.7 * 14.2 * 1.8 * 6.7) / 28.3 = 99.24</math></b>	99.24	102	2.7%
	14.2 (Neptune/ moon) diameters rate 1.8 Neptune Orbital inclination 28.3 Neptune Axial Tilt 6.7 Moon Axial Tilt			
Pluto	<b>Pluto Mass =</b> <b><math>(0.687 * 0.073 * 224.7) / (122.5 * 7) = 0.01351</math></b>	0.01314	0.0131 4	0%
	0.687 (moon/Pluto) diameters rate 7 Mercury orbital inclination 122.5 Pluto Axial tilt.			

Note: all planets follow the equation perfectly except Neptune needs Uranus Orbital inclination to define his Mass & Pluto needs Mercury Orbital inclination to define his Mass.

## Study of Solar Group Planets Masses Table

- I should explain that all my 5 Basic planets equations are just methods to express the Planet Data. So my equations are similar to a measurement for the average planets data and to see which Planet follows completely the equation and which Not. My hard work summarizes in the numbers dealing to make the process very near to the Planet data itself.
- **For that, I don't know why one planet uses his orbital inclination to define his Mass, and why another planet doesn't use!**(I left the own planet data as the planet free option to produce convenient result- but the misunderstanding of the planet behavior in his equation found because of the planet Motion misunderstanding, where the Mass is created by the Motion), I tried to find suitable format for the planet Mass depend on the Planet own Data, and I found that during my dealing with the Planet data numbers
- Also there are some additional values available for any planet to use without limitation, such as the Moon orbital inclination & Axial tilt, and also Venus orbital inclination & her Axial Tilt .. and that because these planets data are using as Basics of the Mass Equation, so for example any planet can use not only the Moon Mass in his equation but also its orbital inclination degrees...etc this also is considered as free options for any planet to produce the convenient result.

▪ **The main argument here is the following:**

- 1- Because all the Planets used the **same constants numbers** (moon mass, inclinations, Venus period.. etc) So the **Planets Masses Are Related To Each Other**
  
- 2- And where the Planet Mass depend on **the own Planet motion data**, that may prove, **the Mass isn't independent property** because the Mass depends on **the planet motion data which are changeable according to the Motion** (Motion data i.e. orbital inclination & Axial Tilt)

## The Masses Equation Table Comment

Planet	Its Mass equation solution	
<b>Mercury</b>	<b>Mercury Mass</b> $(0.073 * 224.7) / (1.404 * 7 * 5.1) = 0.327$	
	0.073 Moon mass 1.404 Mercury/ moon sizes	5.1 Moon orbital inclination
	<b>Mercury follows the Equation perfectly</b>	
<b>Venus</b>	<b>Venus Mass = <math>(0.073 * 224.7) / 3.48 = 4.713</math> (Error 3.2%)</b>	
	0.073 Moon mass 224.7 Venus orbital Period	3.48 = (Venus / moon sizes rate)
	<b>Venus follows the Equation perfectly</b> But Venus divides her equation by the Venus / Moon diameters rate, and the reason may be the Venus regressive Motion, where this Research Basic hypothesis is the Mass is created by the Motion, and when the Motion changes, the Mass equation may change also.	
<b>Earth</b>	<b>Earth Mass = <math>0.073 * 3.66 * 224.7 = 60.03</math> (Error 0.5%)</b>	
	0.073 Moon mass 224.7 Venus orbital Period	3.66 Earth / moon sizes rate
	<b>Earth follows the equation Perfectly</b>	
<b>Mars</b>	<b>Mars Mass = <math>(1.9 * 224.7 * 0.073 * 1.9) / (6.7 * 5.18 * 2.6) = 0.66</math> (error 3.5%)</b>	
	1.9 Mars / moon diameters rate	6.7 Moon Axial Tilt
	224.7 Venus orbital period	5.1 Moon orbital inclination

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	2.6 Venus complementary Axial Tilt (180-177.4 =2.6)	1.9 Mars Orbital inclination
	<ul style="list-style-type: none"> <li>▪ <b>Mars follows the equation Perfectly</b></li> <li>▪ Mars uses many factor in his equation all of them are available by the equation rule, So he used just his own data, Moon data &amp; Venus data.</li> </ul>	
Jupiter	<b>Jupiter Mass=</b>	
	<b>(41.14*224.7*0.073*3.44)/1.3 = 1786 (error 5.9%)</b>	
	41.14 Jupiter/ Moon sizes rate	0.073 * 10 <sup>24</sup> kg Moon Mass
	224.7 days Venus orbital Period	3.44 Venus orbital inclination
	1.3 Jupiter orbital inclination	
	The factors are usual, but Jupiter need help from Venus orbital inclination and that's logical because Venus period is using as the moon mass. And Jupiter uses his orbital inclination also ( <b>Jupiter follows the equation perfectly</b> )	
Saturn	Saturn Mass = <b>0.073* 34.68* 224.7=568.8 (error 0%)</b>	
	34.68 (Saturn/ moon) sizes rate	224.7 Venus Orbital Period
	0.073 * 10 <sup>24</sup> kg moon mass	
	<b>Saturn follows the equation Perfectly</b>	
Uranus	<b>Uranus Mass =</b>	
	<b>= (14.71 * 0.073* 224.7)/ 0.8*3.44 = 87.6 (1%)</b>	
	14.71 Uranus/ moon sizes rate	224.7 Venus period/ 0.073 Moon Mass
	0.8 Uranus Orbital inclination	3.44 Venus Orbital



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		inclination
	<p><b>Uranus follows the equation perfectly</b></p> <p>Just Uranus divided his equation by his orbital inclination and Venus orbital inclination, and both numbers are used normally by the equation explained rules.</p>	
<b>Neptune</b>	<b>Neptune Mass= (14.2 * 0.073*224.7*0.8)/1.8 = 103.5 (1%)</b>	
	14.2 Neptune/ moon sizes rate	224.7 Venus period/ 0.073 Moon Mass
	0.8 Uranus Orbital inclination	1.8 Neptune Orbital inclination
	<p><b>Neptune follows the equation approximately</b></p> <p>Neptune uses the Uranus orbital inclination (the nearest Planet) and divided by his orbital inclination, all of that follow the equation normally.</p>	
<b>Pluto</b>	<b>Pluto Mass = (0.687 *0.073*224.7*)/(122.5*7) = 0.01314 (0%)</b>	
	0.687 (moon/Pluto) sizes rate	224.7 Venus period/ 0.073 Moon Mass
	122.5 Pluto Axial tilt	7 Mercury orbital inclination
	<p><b>Pluto follows the equation approximately</b></p> <p>Pluto divided his equation by his orbital inclination and it's normal, but also by Mercury orbital inclination, because Mercury is the Master of our group (Starting Basic point), So Mercury starts the group and closes it, so he used his orbital inclination with his Mass and with Pluto mass</p>	

### **3<sup>rd</sup>-The Proves Of "The Mass Is Created By The Motion" (Continued)**

#### **13- The Mass & time (The Matter & Antimatter)**

As I argue in this Chapter, the mass is created by the Motion, we know the Mass (matter) is produced by the light in two forms (electron & positron) which is called the matter & antimatter. Some people ask where's the antimatter on the Earth?, because we find just Matter can continue in existence?

I argue that the time is necessary for the Material Universe Continuous Existence. **The Time Create An Isolator Between The Matter & Antimatter** but both of them are found on the Earth.

We should notice that **the positron moves backwardness at the time dimension**, which means **The Matter & antimatter are separated from each other BY THE TIME.**

So because the time is found and forms the isolator between the Matter and Antimatter, the Matter moves **in Cycle suffering the continuous attraction between the positive & negative charges, which can't reach each other because of the time.**

#### **14- The Church learnt us that The Mother of God still Virgin after She gave birth to Him!! And why this learning is important for us?!!**

The Church told us that the Mass (Matter-body) is made of light (the motion), and The Lord Himself (as any other human) passed through His Mother without tearing Her Body, because he passed as a light beam, which's a human ability needs some training (as the Monks training to be enable to fly as light beams!! Which are events registered in the history can't be denied or explained). for that reason The Mother of God still Virgin after the Birth!!! The Church tried to save the Nature correct

principles in the religion learning to help the science. Very strange the science considers the Religion is his enemy! while the Religion & ancient civilizations try to learn us some useful principles<sup>5</sup>!

**15- How can we explain the astrology strange abilities?**

Because the Matter (Mass) is created of the motions (the Universe Motions) for that the astrology professionals who knows the universe motions can expect some events will be happen for our material bodies, because the body material is controlled by the universe motions. (how these abilities can be explained if the Matter (Mass) is independent?!!).

---

<sup>5</sup> - I'm very surprised that there's no any study dealt "the 2737 Egyptian astronomic phenomenon"(I present this phenomenon in chapter 1 of Part 2 of this Paper)! 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!!

## Chapter 3

### The Mass Definition Conclusion

#### Introduction

After the proves that "the Matter (Mass) is created by the Motions", we know now that

### The Planet Motion Is NOT Caused by the Gravitational Forces

#### The Planet is portable by the Motion

Actually that should change our vision to the universe completely, then I provide here an example for the universe vision change

That we'll see in following.

#### Earth Cycle

The Earth has a cycle which is

365 days+ 365 days +365 days +366 days = 1461 days

This is the Earth Cycle which is very known

But we need to realize that the Earth Matter is effected by the Earth Cycle, that because the Earth Matter is portable by the Earth Motion.

Let's study one case as example for the change in our universe vision.

## The Earth Great Earthquake

Before December 2012 there were many claims that in December 2012 the Earth will face the greatest Earthquake in human history. The claims of the greatest Earthquake are found in many sites as the following

[http://en.wikipedia.org/wiki/2012\\_phenomenon](http://en.wikipedia.org/wiki/2012_phenomenon)

<http://www.timeanddate.com/calendar/maya-world-end.html>

Here I don't evaluate this information if it's correct or incorrect

Here I want to use this information to show how the universe Vision will change based on the Matter new definition.

We all know that the Earthquake didn't happen in December 2012, as it was expected

But I want to apply my new Mass definition on this Case

Let's try

## The Earthquake date was mistaken! Why?

The earthquake shouldn't hit the earth in December 2012, that was mistaken date! And why?

Because we know now that the Earth Matter (Mass) is portable by the Earth Motion

And because the Earth Matter (Mass) depends on the Earth Motion, the Earth Mass should be effected by the Earth motion Cycle..

So the Motion Cycle ( $365+365+365+366 = 1461$  days) isn't just motion Cycle but also the Earth Matter (Mass) is influenced by this Cycle..

That means the greatest earthquake – if truth- can't reach to the Earth Matter in December 2012

But should wait after one complete Cycle (1461days)

**So The Correct Date should be after December 2016**

As the sun rays sent to the Earth needs 500 seconds to reach to the Earth That's the same case the Earthquake strong force should reach to the Earth Matter (Mass) after one complete Cycle (1461 days)

### The Conclusion

**The Earth Greatest earthquake –if Truth- will hit the Earth Mass after December 2016..**

## Chapter 4

### The Planets Orbital Distances Equation

#### 4<sup>th</sup> Equation

$$\begin{aligned} & \text{THE PLANET ORBITAL DISTANCE} = \\ & = (\text{Planet Diameter} / \text{Earth Diameter}) * \text{Earth Orbital Distance} \\ & \quad 1\text{AU} * \text{The Orbital Inclination of the Previous Planet.} \end{aligned}$$

#### Introduction:

What we need from the Planets orbital distances study? We need to prove that the Planets orbital distances are depended on each other.

Or the planet orbital distances depend on any other data which means the planet distances are not independent.

The Planet Orbit distance equation is one of the very interesting equations, which proves clearly that the Planets orbital distances are depended on the Planets diameters & orbital inclination.

So any Planet orbital distance depends on his diameter rate to the Earth diameter and the orbital inclination of his previous Planet (for example Venus orbital distance depends on Mercury orbital inclination- And this idea should be correct because the previous planet gives the allowable area for the planet rotation)

**This Planet Orbit Distance Equation Is A Crucial  
Proof That The Planets Are Depended On Each.**

## The Planet Orbital Distance Table

Now I'll use this equation to define the solar group planets orbital distances as following.

Planet	THE PLANET ORBITAL DISTANCE = (Plant Diameter /Earth Diameter)* Earth orbital distance 1AU * The orbital inclination of the Previous Planet.	Resulted	Registered
Mercury	(Mercury Diam/ Earth Diam)* 1AU =0.38*149.6 = 57.37 M km	57.3	57.9 (error 1%)
<p><b>Because there's no Previous Planet for Mercury,</b> for that he doesn't use any orbital inclination to define his orbital distance</p>			
Venus	(Venus Diam/ Earth Diam) * (Mercury orbital inclination/9.3) * 1AU = 0.9488* 149.6* 7/9.3 = 106.8	106.8	108.2 (error 1%)
<ul style="list-style-type: none"> <li>- Venus uses The Mercury orbital inclination according to the equation, because Mercury is the previous Planet to Venus.</li> <li>- The Solar group planets are one series connected together, So Venus needed to divide hers equation by 9.3 to find her orbital distance, and Neptune needed to multiply his equation by 9.3 to find his orbital distance!! So there's no change is happened because Venus &amp; Neptune are connected together and <b>can behave as one number</b> when multiply it with 9.3 and divide it by 9.3 the result will be no change.</li> <li>- That's not very surprised, and we will see this operation repeats again by the same value. that does not weaken the equation, that proves the planets are connected with each other more deeply than the gravitation theory suggests</li> </ul>			
Neptune	(Neptune Diam/ Earth Diam)= 3.882 * 1Au *0.8 Uranus orbital inclination * 9.3 = 4483.7	4320.7	4495.1 (error 3.8%)
<ul style="list-style-type: none"> <li>- Neptune uses Uranus orbital inclination according to the Equation Neptune uses also the multiplying of 9.3 to balance the Venus division of it, to define his orbital inclination.</li> </ul>			
Earth	Is our Measure tool to define the distance Earth orbital distance = 149.6 million km		



We should notice that the Earth orbital inclination is Zero, that means Mars can't depend on the Earth to define his orbital distance because she has no orbital inclination, Spite Mars very near to the Earth..

For **that Mars will depend on Jupiter!** Because the Earth has no orbital inclination..

But this will make some difficulties because Jupiter himself should depend on Mars to define his orbital distance, and all that will make the situation some complex.

For that reason, we should not define the Mars distance Now

**We should starts again from Uranus** (Because Neptune is defined already connected directly with Venus) to find the continuous series to see how Mars & Jupiter will solve this problem..

And now we'll start with Uranus

Uranus	$(\text{Uranus Diam}/\text{Earth Diam}) * 1\text{AU} * F(x) =$ $= 4 * 1\text{AU} * 2.5 \text{ Saturn orbital inclination} * 1.922 =$ $2875.3 \text{ (1.922 transferred to Saturn)}$	2875. 3	2872.5 (error 0)

- Uranus uses Saturn orbital inclination according to the equation.
- As we know from Venus & Neptune, the solar group is a series continuous & connected together. For that the numbers transferred through the solar group from planet to planet without difficulties because all the planets are created by the Same Motion, and for that reason the rest Number 1.922 will transferred easily to Saturn where Saturn may use this number and if that happens Uranus & Saturn will be partners in this same value which part of it at Uranus and The Other Part At Saturn.

Saturn	$(\text{Saturn Diam}/ \text{Earth Diam}) * 1\text{AU} = 9.44 * 149.6$ $= 1413.5$	1413. 5	1433.5 (error 1.3%)
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- Saturn depends on Jupiter orbital inclination 1.3 according to the Equation.
- But there's a transferred Number (1.922) came from Uranus,
- These both numbers together =  $1.3 * 1.922 = 2.517$
- But Saturn equation doesn't uses any orbital inclination!

For that reason

<b>This whole Number (2.517) will be transferred into Jupiter</b>			
Jupiter	$(\text{Jupiter Diam/ Earth Diam}) * 1\text{AU} * F(x) =$ $= 11.209 \times 149.6 \times 0.461 = 775.11$	775.1 1	778.6 (Error 4/1000)
<p>- Jupiter should depend on Mars orbital inclination according to the equation But</p> <ul style="list-style-type: none"> <li>- There's also a transferred number from Saturn</li> <li>- So the total is</li> <li>- 2.517 (transferred from Saturn) * 1.85 Mars orbital inclination = <b>4.656</b></li> <li>- <b>But Jupiter used inclination orbital value = 0.461</b></li> <li>- <b>So the rate between both values = 10</b></li> <li>- <b>This 10 will be transferred to Pluto</b></li> </ul>			
Mars	$(\text{Mars Diam/ Earth Diam}) * 1\text{AU} * (1.31/0.461)$ $= 227 \text{ millions km}$	227	227.9 (error 4/1000)
<p>- Mars was the problem, because the Earth has no orbital inclination, and so it's difficult to define his orbital distance..</p> <p>From the Mars Equation we see</p> <ul style="list-style-type: none"> <li>- Mars depends on Jupiter and that's the only available solution, shortly because there's no third planet!</li> <li>- But when Mars used the Jupiter orbital inclination to define his orbital distance, he has to use <b>the Value 0.461 which used by the Jupiter himself</b></li> </ul> <p>It's important to understand that</p> <p>Because the relation between Mars &amp; Jupiter is mutual relation both of them depends on each other to define their orbital distance and for that reason both of them use the same number.</p>			
Pluto	$(\text{Pluto Diam/ Earth Diam}) * 1 \text{ AU} * 10 * 17.2 * 1.3$ $= 6255.25$	6255. 2	5870 (6.5%)
<ul style="list-style-type: none"> <li>- Pluto uses his orbital inclination because no other planet behind him.</li> <li>- But Pluto also uses Jupiter orbital inclination, and the reason for that is the Number 10 which is transferred from Jupiter to Pluto. So if the transferred No. 10 can reach to Pluto from Jupiter, why Jupiter orbital inclination himself not reach...</li> </ul>			

### The Planet Orbital Distance Table Comment

**1<sup>st</sup> :Why the previous equation & table tell us some Truth?**

1. The basic equation is used for all the planets, i.e. there's one rule controls all the planets, how can any one create such Rule if didn't create by the Planets Creator Himself.
2. The transferred numbers through the Solar group depends on **The Orbital Inclinations** of the solar group planets i.e. **there are no outer Numbers**, so if the orbital inclinations of the solar group planets aren't suitable to the equation, these transferred value will show great disturbances.
3. The Numbers are transferring between the Planets are correct idea based on assumption that the Planets are depended on each other, related to each other and suitable for each other..
4. The errors are at average and be acceptable

**2<sup>nd</sup> : What does tell us this equation?**

1. The Using of Previous planet orbital inclination to define the planet orbital distance is a correct idea because each planet defines his planet orbital distance based on his previous planet position i.e. each position Planet defines the next planet position. That's the reason for which Bode Law discovered some sequences for the Planets, but because of the Mars problem, this sequence has some change So the Bode law equation didn't realize it.
2. The Planets are connected, related and depended on each other.

**This Equation is a crucial proof that  
"The Planet Matter (Mass) isn't independent &  
Created by The Motion"**

## **Other forms express the Planet orbital distance relations**

### **Form No.1**

We may know that

- **Mercury orbital distance = Mercury diameter x (109)<sup>2</sup>**
- **Earth orbital distance = Earth diameter x (109)<sup>2</sup>**
- **Saturn orbital distance = Saturn diameter x (109)<sup>2</sup>**

Just these three planets follow this equation, and the other solar group planets don't follow! So if I have no physical reason for these specific three planets to explain why these 3 planets specifically follow this equation, I have to give up and consider these numbers as just "Pure coincidences"...!

### **But I Have A Physics Reason & Explanation!!**

#### **These Three Planets Are Members In The 2737 Cycle**

(the 2737 Egyptian astronomic phenomenon occurred when Mercury, Venus & Saturn aligned on the Egyptian pyramids heads on 3<sup>rd</sup> December 2012 which is a phenomenon repeats once each 2737 years, and on 3<sup>rd</sup> December 2012 "the 2737 Cycle" is repeated for third Time –The phenomenon 2737 in details is found in Part 1/ chapter 6 of this paper)

Now I Have A Physical Reason!

I claim the Mass is created by the Motion, So these 4 planets (Mercury, Venus, Earth & Saturn) perform **one specific Motion Cycle which is the 2737 Cycle**, But the Other Planets don't perform the 2737 Cycle,

---

**So the Motion of the 2737 Cycle is the cause to create these 4 Planets orbital distances depend on their diameters!!** This

conclusion seems logical to our argument,

But this explanation faces a serious obstacle! **Because Venus the fourth member of the Cycle 2737 doesn't follow this equation!!**

So the physical reason will be invalid because of that!! NO!!!

**Because Venus regresses**, we should remember (the Mass is created by the Motion). And Now Venus changes her Motion regarding to the other three planets, why she should follow their same equation?! It's just correct Venus can't follow their equation, and the equation still valid

This form of relation tells us these four planets follow the same rule to define their orbital distances Based on their diameters

I.e. The planet orbital distances aren't independent

I.e. The planets are not independent

i.e. The Planet Matter (Mass) isn't independent

I'll provide here the references of the Cycle 2737

## **2737 CYCLE REFERENCES**

The Planets Mercury, Venus & Saturn aligned the Egyptian  
Pyramids heads once each 2737 years

**Occurred on 3<sup>rd</sup> December 2012**

(more details in chapter 1/ part2 of this paper)

### **I- References for the 2737 phenomenon predicting occurrence**

<http://alamongordo.com/apocalypse-armeddon/3-planets-balanced-giza-pyramids-december-3-2012/>

<http://galacticconnection.com/mercury-saturn-and-venus-aligned-on-dec-3-2012-with-the-pyramids-at-giza>

[https://www.youtube.com/watch?v=-y\\_OAdAAdes](https://www.youtube.com/watch?v=-y_OAdAAdes)

<http://galacticconnection.com/mercury-saturn-and-venus-aligned-on-dec-3-2012-with-the-pyramids-at-giza/>

<http://blogs.discovermagazine.com/badastronomy/2012/08/20/planetary-alignment-pyramid-scheme/>

<http://astroblogger.blogspot.com.au/2012/08/no-there-will-not-be-planets-aligned.html>

<http://www.ronpaulforums.com/showthread.php?397336-Planets-Aligned-with-Pyramids-of-Giza-1st-Time-in-2-737-Years-12-3-2012>

<http://www.stuffwecomeupwit.com/planetary-alignment-that-will-take-place-dec-3-2012-on-top-of-pyramids/>

<http://www.godlikeproductions.com/forum1/message2067960/pg1>

<http://www.godlikeproductions.com/forum1/message2068942/pg1>

<http://blogs.nature.com/houseofwisdom/2012/08/planets-alignment-on-pyramids-image-is-not-very-accurate.html>

<http://2012thebigpicture.wordpress.com/2012/12/01/significance-of-the-giza-pyramid-planetary-alignment-on-december-3rd-2012/>

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



### **II- References for the 2737 phenomenon actual occurrence**

<http://earthsky.org/space/photos-from-friends-december-3-2012-line-up-of-three-planets>

<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>

<http://sciencespiritizer.fullblog.com/alignment-of-planets-on-the-pyramids-12032012.html>

<http://beforeitsnews.com/alternative/2012/12/3-pyramids-of-gizeh-3-dec-2012-star-alignment-confirmed-2507300.html>

<http://beforeitsnews.com/alternative/2012/12/3-pyramids-of-gizeh-3-dec-2012-star-alignment-confirmed-2507300.html>

<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>

<http://forum.gdvplanet.com/topic/369-planets-align-with-giza-pyramids/>

<http://missiongalacticfreedom.wordpress.com/2012/12/02/december-3-2012-planetary-alignment-with-giza-pyramids-orions-belt/>

<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>

<http://sciencespiritizer.fullblog.com/alignment-of-planets-on-the-pyramids-12032012.html>

<http://beforeitsnews.com/alternative/2012/12/3-pyramids-of-gizeh-3-dec-2012-star-alignment-confirmed-2507300.html>

## Other forms express the Planet orbital distance relation

### Form No. 2

#### The Planets Orbital Distances & Circumferences

Planet	Planet Orbital distance (d)	1 <sup>st</sup> circumference = $2\pi d = R$	2 <sup>nd</sup> circumference = $2\pi R$
Mercury	57.9	364	2288
Venus	108.2	680.1	<b>4275</b>
Earth	149.6	940.3	<b>5908</b>
Mars	227.9	<b>1432.5</b>	9004.2
Ceres	415	<b>2608</b>	
Jupiter	778.6	4894	30762
Saturn	<b>1433.5</b>	9010.5	56637.4
Uranus	<b>2872.5</b>	18055.7	113492.9
Neptune	<b>4495.1</b>	28254.9	
Pluto	<b>5870</b>	36897.1	

#### From The Previous Table We Find

- Neptune orbital distance = The second circumference of Venus orbital distance (with error 4.8%)
- Pluto orbital distance = The second circumference of Earth orbital distance (with error 0.6%)
- Saturn orbital distance = The first circumference of Mars orbital distance (with no error approximately)
- Uranus orbital distance = The first circumference of Ceres orbital distance (with error 9.2 %)

## Comment On The Table of

### (The Planets Orbital Distances & Circumferences)

- Saturn, Uranus, Neptune & Pluto are found at distances equals the other planets orbital distances circumferences!! Is there a physical interpretation for this phenomenon or that's just "pure Coincidences"
- I think There's a physical reason that create some planets orbital distance equals at other Planets orbital distances circumferences, but we see this universe wrongly, because of the gravitational definition of the Mass prevents us to see the motions harmony creating the Mass and its Cycle distance.

#### Note:

- 1- Mercury orbital Circumference = 364 millions km, but this same number =  $(\pi+1)* 88$  (88 is mercury orbital period)!!
- 2- Jupiter second circumference is 30762 and this number equals Uranus orbital periods days (error 0.5%)!!

We should not be surprised that the distances can be seen in orbital periods! It's not coincidence, it's the process by which the Planets produce the time & space in which we live!

The Earth rotation period (23.9 hours) transfers into Cycle degrees (360 degrees) which will transfer into defined distance (the Earth rotation distance around her Axis per day as a part of the orbital distance 365.25 days ), but not just that, the Planet Mass found based on the motion by method which we don't know, So after the Mass is found the Motions decrease by the Mass Value, then the New Mass will have gravitational forces to practice more effect on the general very complex equation by which the solar day, the space, the chance for life & knowledge learning are produced!!! **(more details about the coincidences and unit meaning we should discuss in chapter 7 titled Mercury Puzzles).**



## Chapter 5

### The Planets orbital inclination equation

5<sup>th</sup> Equation

$$\text{Planet Orbital inclination} = 13.18 * (F(x))$$

Where:

13.18: The Moon Motion degrees daily  $= (360/27.3 \text{ days})$

F(x) Is A Function Of The Planet & Moon OI & AX

The Planets Orbital inclination table

The Planet	Orbital inclination = $13.18 * f(x)$	Result	Registered	Error
Mercury	<p><b>Mercury orbital Inclination OI.</b> =  <math>13.18 * 1/92 = 1/7</math>  <math>1/1/7 = 7</math></p> <ul style="list-style-type: none"> <li>❖ <math>1/92 =</math> Mercury Axial Tilt (<math>0.01 = 1/92</math>), Mercury uses his Axial according to the Equation to define his orbital inclination.</li> <li>❖ This equation shows that the Mercury orbital inclination is <math>1/(\text{equation Value})</math>, which means the Mercury equation is reflective because Moon depends on Mercury and Not mercury depends on the Moon)</li> </ul>	7	7	0
Venus	<p><b>Venus orbital inclination</b>  <math>(13.18)^{1/2} = 3.63</math>                      Venus uses the moon degrees according to The equation</p>	3.63	3.44	5.5%
	<p><b>Note <math>13.18 / 5.18 = 2.54</math></b>                      Where  <b>5.18</b> the Moon orbital inclination  <b>2.54</b> (approximately = 2.6) which is Venus Axial Tilt complementary (<math>180 - 177.4 = 2.6</math>)                      This is another equation used by Venus to define another number based on the moon motion degrees daily (13.18)</p>			

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

Earth	Earth Orbital inclination = zero	22.8	23.44	2.7%
	Earth Axial Tilt AX= 13.18*1.73=22.8			
	1.73 = (5.18) <sup>1/3</sup> Where 5.18 is the Moon orbital inclination			
Moon	Moon orbital inclination = (13.18/2.6) = 5.07	5.07	5.18	2%
	2.6 = (6.68) <sup>1/2</sup> Moon Axial tilt			
Mars	Mars AX = 13.18 * 1.9 = 25.04	25.04	25.2	0.6%
	1.9 Mars orbital inclination			
	Mars uses his Axial Tilt according to the equation, easily he finds his orbital inclination.			
Jupiter	Jupiter Orbital inclination = 13.18/ (3.1) <sup>2</sup> = 1.37	1.37	1.3	
	Where 3.1 Jupiter is Axial Tilt Jupiter uses his Axial Tilt according to the Equation.			
Saturn	<b>Saturn Orbital inclination</b> = (13.18/26.7)*5.18= 2.51	2.51	2.5	0.3%
	26.7 Saturn Axial Tilt 5.18 Moon orbital inclination Saturn uses his Axial Tilt according to the Equation and easily finds his orbital inclination.			
Uranus	<b>Uranus Orbital inclination</b> = 97.8/(13.18*5.18*1.77) Note/ Uranus regress	0.809	0.8	0
	Where 97.8 Uranus Axial Tilt 5.18 Moon Orbital inclination 1.77 Neptune orbital inclination			

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 Through the Mother of God mediation  
 I do this research

	Uranus uses his Axial Tilt according to the Equation Uranus uses Moon Orbital inclination & Uranus uses Neptune orbital inclination I should explain that I had to use Neptune Number, because I want no any outer Number to use supporting the equation, but there's no way to fight here, because Uranus really depends on Neptune orbital inclination, he gives us this information and prevents us from the imagination! So this information confirmed that the planets depends on each other.			
Neptune	<b>Neptune Orbital inclination</b> $= (28.3 * 5.18) / (13.18 * 6.68) = 1.665$ Where 28.3 Neptune Axial Tilt 5.18 Moon Orbital inclination 6.68 Moon Axial Tilt	1.665	1.77	5.9%
	Neptune uses Just the equation components without any outer Value to prove the equation is correct.			
Pluto	$(122.5/13.18) = (3.047)^2$ $3.047 * 5.18 = 15.78$	15.78	17.2	8.2%
	122.5 Pluto Axial Tilt 5.18 Moon orbital inclination			
	Pluto uses Just the equation components without any outer Value to prove the equation is correct.			

## The Planet Orbital inclination Table Comments

5<sup>th</sup> Equation

$$\text{Planet Orbital inclination} = 13.18 * (F(x))$$

**Where:**

**13.18: The Moon Motion degrees daily =(360/27.3days)**

**F(x) Is A Function Of The Planet & Moon OI & AX**

1. The Equation is Valid for all the Planets, where all the planets follow the equation perfectly except three cases which are
  - a. The Earth depends on Mars orbital inclination to define her Axial Tilt because the Earth orbital inclination is **Zero**
  - b. Uranus depends on Neptune orbital inclination, which is a proof that the planets depended on each other, supporting my argument **the Mass is created by the motion.**
2. I don't form the way by which planet uses his Axial Tilt with 13.18 (the moon motion degrees daily) to define his orbital inclination because that depends on the planet motion which we don't understand yet, and so I left the planet deals his Axial tilt number to reach to a convenient value where the resulted equation tells us some data about the planet motion.

3. The Mercury equation appears as a reflective equation because the moon motion degrees daily depends on mercury inclination and Not the Mercury depends on the Moon (the Mercury reflective equation with the moon data are found many times in different equations to support this fact). .
  
4. It should be noticed that Venus has 2 equation by which Venus defines her orbital inclination and her complementary Axial tilt, in both equation Venus follows the equation rule clearly, and didn't use any outer number.
  
5. Uranus & Pluto have reflective equation to define their orbital inclinations because both of them **regresses**

## Chapter 6

### The Egyptian Astronomic Phenomenon 2737

#### 1- INTRODUCTION<sup>6</sup>

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.

#### 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)

PLANETARY ALIGNMENT WITH THE GIZA PYRAMIDS,  
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<sup>6</sup> - In the appendix No 2 I provided many references for this actual event, with some videos

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

### Why the Lunar year doesn't correspond with the sidereal year at any cycle?<sup>7</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>8</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 = 11687.999days

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>7</sup> - the day defines here approximately 86164 seconds where the sidereal year is 365.25 days.

<sup>8</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>	<b>20</b>	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

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

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= <b>529 L. Y +11.0558d</b>	520 BLY+173.25d
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)

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**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<sup>9</sup>

The basic question here is

How the far great planet as Saturn is effected by the Moon little Mass to follow the Moon trajectory which is proved by the 2737 Cycle event itself in addition to my previous proves?

Which proves that

**The Matter (Mass) is created by the Motion**

Through this research I proved by many ways that,  
We need to examine the gravitation theory because its capacities are shown very limited to explain our Universe Truth.

In next chapter (Mercury Puzzles) I present some data may support this claim strongly.

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<sup>9</sup> I'm very surprised that there's no any study dealt "the 2737 Egyptian astronomic phenomenon"(I present this phenomenon in chapter 1 of Part 2 of this Paper)! 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!!

## Chapter 7

### Mercury Puzzles And Other Coincidences

#### I- Introduction

In this chapter, I'll gather the Mercury puzzles coincidences, which I knew, trying to find the way to their solutions, otherwise we will face more questions.

We should review our work..

For what reason I presented this paper? I argue that we see the universe through a wrong vision and I presented another Universe Vision!

But why we see the universe through a wrong vision?

I argue there are three reasons for that as following

1. Our consideration of Matter (Mass) as independent property, where the Matter (Mass) is created by the Motion, portable by the motion and controlled by the Motion.
2. The unit definition during the unit measurement production process as I explained in the Eclipse discussion Point No. 7 (page 20)
3. The coincidences of Numbers where we see the data by our eyes but neglect them because we consider them as coincidences have no physical meaning!

In this chapter we should fight in our argument, I'll try hardly to show the Universe Vision Truth as possible.

Let's start our discussion



## II- Mercury Puzzles

Here I'll provide the Mercury puzzles which we faced in the way.

1. Mercury Synods The Earth once each 116 days But the Venus Day is 116.8 days &  $116.2\Pi = 365.2$  which is the Earth Cycle Why?!! So in previous discussion I suggested there's relation between the Mercury/ Earth synodic period with the Venus Day & Earth Cycle! But we don't understand How does the Gears works! And I added  $116.8 = 176 \text{ "Mercury Day"} / 1.5$  Where The Mercury Orbital Period 88/ Mercury rotation period 58.6 =1.5!)

**Note please: all the previous numbers are periods of time**

2. This point can be connected with the previous one..... because  $116\Pi = 364.5$  where number 364 is very important because Mercury orbital PERIOD 88 ( $\Pi+1$ ) = 364 = 2  $\Pi$  57.9 m k (where 57.9 m k is Mercury orbital distance)... 364 millions km is the Mercury Orbital circumference while  $364 = \text{Mercury Period } 88(\Pi+1) = \text{Mercury / Earth Synodic period } 116 \Pi !!$

**Note please: Not all the previous numbers are periods where 364 is found in two forms one of days (time) and one of millions km (distance)**

3. **Mercury Rotation Period 58.65 ( $\Pi+1$ ) = 243 Venus Rotation Period"** this equation confirms on the relation ( $\Pi+1$ ) which we don't understand its geometrical meaning

4. Now we now that 176 days approximately is the Mercury day, but if we consider 176 in a distance (176 millions km) So  $2 * \Pi * 176 = 1106$  millions km and this distance starts from The sun to the middle point between Jupiter & Saturn where the distance from this point to Saturn or to Jupiter = 327 millions km! (note please 327.6 days = 27.3 Moon sidereal period \*12 months)
  
5. Also with 116 days if we consider it as a distance 116 millions km, So  $2 * \Pi * 116 = 729$  millions km which reaches before Jupiter by 50 millions km approximately (where the distance between Mercury & Venus is 50.3 Millions km)
  
6. 364 millions km (mercury orbital circumference) / 2.41 (Moon orbital around the Earth circumference) = 151 million km (the Earth orbital distance)
  
7. 327.6 is the Moon sidereal year, but has this time Cycle an equal distance, i.e. does the moon connects to a distance equals 327.6 millions km, let's see...  $327.6 \text{ Millions} = 2 * \Pi * R$  So  $R = 52 \text{ millions km}$ .. the distance between the Sun & Moon = 150 millions km = 52 millions km +  $\Pi^4$  !!
  
8. But Note also the distance 327.6 millions km / 2.41 (Moon orbital around the Earth circumference) = 135.6 millions km (**NOTE PLEASE the distance 2737 millions km from Uranus toward the Sun reaches to point at distance 135.6 millions km from the Sun where 2737 was a period Cycle and I used it here as a distance**)

### **III – Comments on Mercury puzzles**

I tried to write the minimum strange data which may be sufficient to present the idea

#### **1- How this universe works??**

I don't know, I'll say a suggested idea, one of a complete field we need to start, and many studies now are required to see the universe in much better

#### **The idea as following**

The days & time periods in our solar group transfer into degrees (through the planets system), and then to transfer once more into distances (through the planets system also). This picture isn't complete because during the transformation from case into case many things are created

So may be the time periods transfer into degrees and then into distances through the Matter creating!

For that reason all the periods cycles numbers have similar numbers in distances and also the distances have their similar periods of time..

There are very big machine under the motions of the solar group ten planets, and the Cycles which we see are very little cycles where the great Cycles are unseen

The puzzle of this universe is in the meaning of the Cycles how to connect one cycle with another cycle

## **2- How to solve the universe puzzle?**

The planet has three Cycles one for his rotation period, and the next is his day and the last is his orbital period

We should find the link between the three cycles, How the planet starts from one Cycle into another?

That's the first task

And then we should try to connect the planet three Cycles with another planet Cycles

That's the second task

Through this process we'll see how the Motion creates the Matter & Why.

I hoped to provide more clear solutions for these problems, but we need to make a complete study for Mercury and how the Matter is produced by the Motion.

This study aimed to prove the Matter is created by the Motion and then

**I.e. The rest mass concept is unreal**

**I.e. The gravitation theory is mistaken**

***Additional data related to Mercury:***

*"Mercury Synods Saturn, Uranus, Neptune & Pluto once each 88 days where Mercury orbital Period is 88 days! Why?! It's "Pure coincidence", No. (Now again it's clear the similar Numbers "pure coincidences" has physical explanation. Where Copernicus has equation to define the synodic period based on the Sidereal period (synodic period =  $1/(1/Sp1 - 1/Sp2)$  where  $Sp1$  is Sidereal period of first planet and  $Sp2$  is Sidereal period of Second planet. We should note the value in denominator should be positive). By this equation we'll find the Synodic Period between short orbital period planet as Mercury (88 days) and very long period planet (as Saturn, Uranus, Neptune & Pluto) should be equal to the short planet orbital period because the value  $1/Sp2$  will equal Zero. No once again we have clear explanation why the "pure coincidences" are found". (this text is repeated from the eclipse discussion.*

- Note Please: Mercury /Venus Synodic Period =  $176+116.8=292.8/2 = 146.4$  (the synodic period is 146.1 days )
- Mercury /Earth Synodic Period =  $176+27.3+29.5=232.75 /2 = 116.3$  days (116 days is the Mercury / Earth Synodic Period)
- Mercury /Mars Synodic Period =  $176+29.53 =205.5/2 =102.75$  days (102.3 synodic period Mars & Mercury).
- Mercury Days includes 719.7 degrees
- Mercury Day needs 84 Minutes to complete 176 solar days.
- $176 \text{ mercury day} * 6.68 \text{ Moon Axial tilt} = 1168.64$  days
- $88 \text{ Mercury orbital period} * 13.18 \text{ Moon motion degrees daily} = 1160$
- $7 \text{ Mercury orbital inclination} * 13.18 \text{ Moon motion degrees} = 93$  (93 Millions Miles the Sun/ Earth distance)
- Mercury orbital distance = Mercury diameter  $*/ (109)^2$

## Part II

### The Planets Deep Dependency Explanation

In this Part I try to explain why the planets are deeply depended on each other, and how that is occurred

- The Light Theory (chapter 1)
- Appendix

## Chapter 1

# The Light Theory

### 1- Introduction

The light forces create this universe..

The same theory of this research can rewrite again as the following:

- The light is an independent force
- The light causes the universe Motions,
- This Motion creates the planet mass, its shape and the planet orbit.. .....etc all of them to be suitable to the Light Motion
- The Planet mass is created by the light motions as the light balancing point (or coherence point).
- **Mass alternative definition:** The Mass is a light Balancing point. (coherence point)
- There are 2 light beams who are continuous through the whole Universe, creating the balancing points between them, for that reason the balancing points are connected with each other and depended on each other.

This is the same theory which this research dealt along our fight to prove

The only new data here is "**The Motion caused by the light, means the Matter made of the light**"

This claim which I need to prove in this chapter

## 2-The Proves that "The Mass created by The Light"

### A -Anderson experiment

Anderson performed an experiment in 1934 by which he produced  $e^-$  / $e^+$  from Gama rays (its energy more than 1.2 Mev) And that tells us the mass can be produced by the light

### B - Yang Experiment

The Young Experiment of the light coherence produced **light lines** and **dark lines**, so the Young experiment shows that the **Darkness** can be produced by the light coherence... this result said by Newton before, So these experiments show that the light has many forms..



### C- Experiment $e^+$ / $e^-$ collision to produce a Gamma light

This experiment is a common in physics and not just for electron and positron.

Any particle gets collision with his Anti- particle, together they will be a light and their mass will be transferred into light

### D- A comment of Anderson experiment

Now, Anderson experiment tells us that when the light produce the Mass, doesn't produce one mass but two masses one of them is against the other... (electron is negative charge and position is positive charge) So If the universe is created by Such, i.e. he Universe just a particle and its Anti-particle!! (day & night/ summer & winter/ male & female/ life & death/ ....etc) why that's not logical to suppose the universe mass created by the light!

### E- The wave characteristic

Mentioned before in "the Mass created by the Motion" proves

### F- The suitability between the living creatures and the universe astronomy

Mentioned before in "the Mass created by the Motion" proves

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**h- The universe continues motion, and why the Light velocity is the standard in the universe?**

Mentioned before in "the Mass created by the Motion" proves

**I- The church learning that the Mother Of God still virgin after she gave birth to The Lord! Why this learning is useful for us?!**

Because this learning tells us **the human body made of light** and in some cases which are not miracles the human body can behave as a light beam, So as the human body may behave as light beam, the Lord Himself behaved as a light beam Through His Mother without pains and didn't tear Her body, So S. Virgin Mary still Virgin after She gave birth to HIM, and the birth is done without Pains... this is a human skill, any one can practice but need some training

**K- How to explain The strange skills for the astrology science to predict of the future?**

Because the human body and all the universe Masses made by the same 2 light beams, the Motions of the planets and stars which are balancing points of these 2 light beams may effect on our bodies which are also balancing points of these same 2 light beams.. and for that reason the universe is connected together...and that's the reason for which the astrology science predictions still life till this moment!...

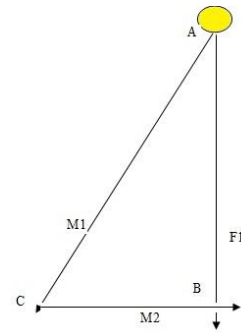
In addition to that, the human history recorded people with special skills as to fly in the Air or to pass through the Walls.. and the reason for such skills is that, they behaved as a light beam.. it's human skill but need training to practice..!

### 3- HOW THE LIGHT PRODUCE THE MATTER (MASS) ?

In this item I'll present a suggested idea how the Mass can be produced by the light,

We should remember Young experiment in which he caused the light coherence and got light lines & dark lines..

Now, suppose the Earth is not found, but the moon and the sun are found, what will happen in this case? The sun (A) sends rays to the moon (C) and to the Earth place (B)



**That Means, There Are Two Waves Of Light**

Which are F1(AB) & M2 (CB), they will have coherence in the Earth location point (Point **B** in the figure)

So the Earth is the point of the **light waves coherence (even if the earth isn't found)**

#### THE MASS APPEARANCE

We remember the Young experiment results are light lines and dark lines!

I assume if Young himself was a light beam pass this experiment, he would see the light lines as matter where the dark light he'll see as darkness (or Dark matter)

But Young saw just the lights & dark lines because he was an outer observer..

Now, the nature of light causes the universe continuous motion, but the coherent light is not free in his motion, because if the coherent light separated his coherence he'll not be dark lines, he will be just light out of coherence...

that tells us, the Young experiments results will be separated once again and will transform into light, because the darkness found based on the coherence and the coherence can't be continuous because of the Light Nature..

for that reason there's friction on the earth!! To cause the death for all the creatures bodies inevitably!! This is strong proof the creature body made of light...

Now, at our side, we were Not outer observer as Young, we were inside the light lines and the Dark lines because Our Spirits (which is a light) passed this coherence and after this coherence we got bodies for our spirits and the Universe got the Matter, Because basically the Existence is just light (Spirit- the proof in next point)

And the Matter is accidental showed to us because we ourselves have bodies which are Matter. So the Universe Matter tells us that we and it found under the same conditions..

**Conclusion: the material & mass is found because of the waves coherence (forces balancing), where the material is shown for the material person, the vision here is mutual because they found under the same conditions.**

**4- Where the light create 2 forms of the Matter (as in Anderson experiment 1934 when he produced electron & positron by Gamma Rays)**

**So if the light create the Matter, the Light create electron & position as found in Anderson experiment 1934, So the Light must create The Matter & Antimatter...**

**So where's the antimatter on the Earth? Because we find just Matter can continue in existence?**

I think the Light create the matter and antimatter as we see in the electron & positron experiment.

**BUT THE TIME IS THE ISOLATOR BETWEEN THE MATTER & ANTIMATTER**

but the Matter & antimatter are found on the Earth (female & male for example)

We should notice that **the positron moves backwardness at the time** dimension, which means the positron is not from our time.

**And So the Matter & Antimatter Are Separated From Each Other By The Time.**

So because the time is found and forms the isolator between the Matter and Antimatter, the Matter moves in Cycle suffering the continuous attraction between the positive & negative charges, **which can't reach each other because of the time.** So the Matter moves submitted to the gravitation forces but Not move by the gravitation forces, rather moves portable by the Motion (the light)

I get this information from the observation..

Because the friction in a component of our life, and the friction causes our consumption leading to death! means the death was just part of the life itself, it gives us just sometime!!

So the light create the Matter in two forms (Matter & antimatter) prevented them to reach each other by the Time isolator and then gives a way to the natural return from the Matter into light by the continuous friction during a specific period of time.

#### 4- THE LIGHT SOURCES

##### A- The Human Life Is The Light

Because the human life (Spirit) study often considers related to the metaphysics, I can't write too much about the human life here..

But based on the medical studies we know there's electromagnetic waves inside the human body, in his Heart, brain and his rest body, and these electromagnetic waves always be stopped when the human be dead! Which may support that the human life is the electromagnetic waves in his body which is the light in his body.

##### The Suggested Universe Structure

All the human spirit considers just one beam of light and the **other beam of light is The Lord Himself The Creator of The Life**

The God is a light and He creates the human in his like (Genesis 1: 26), So the human also is a light beam (Bible said "The God is a spirit (john 4: 24), and also "I'm the world light" (john 8: 12)... that means we see the spirit as a light, so the **human spirit is similar to The Lord Himself both of them we see as a light...** Because of the human sin, **the human moves against the Lord His Creator**

This motion caused the first collision or as I called the first forces balancing (and we were inside the light during this light collision or coherence, for that after the coherence we got our bodies and the universe matter is appeared around us) the human light beam go to death in ignorance because of his Sin but the Lord light Beam catches him (in the forces balancing) to prevent him to die! through the Lord Himself we see all the physics in the Universe Because of his connection with the human light beam He attracts us to Higher

places through the universe which we see, where the universe is full of knowledge leading us to the life raising us from the death.. this idea may give some explanations as following:

- That explains why there's permanent smart logic in the universe
- And explains why the human has change to change in the universe & Matter because the Lord creates this universe with human contribution. As in the child birth.. The Lord creates the human body and the desire but the Human do 't by Himself to bear a child in the Universe, and may the Human refuses the Good Lord Idea and destroy this Universe! The human is free to kill himself! But The Lord warns and learns..
- That also explains, when someone die, no one sees his spirit because his Spirit is just light as all the light around us...but the spirit in life can be detected by the electrical pulses which is found in the human brain and heart... and these pulses are electromagnetic waves which are light...
- That also explains why the coincidences should be made before our eyes because this universe Matter is The Lord tool to learn us

We should understand that our spirit surpass this material universe... but the universe is the Lord learning tool for us... And He's the other Light beam guides us to the life...Because The Lord wants to give us His knowledge that's the source of life he catch our light beam creating together this material universe as a learning tool for us all The bible said " ...God us exalted by His power; Who teaches like Him? (Job 36: 22)

## Appendix No. 1 : The References

### I- References for the 2737 Egyptian phenomenon predicting occurrence

#### (the 3 planets alignment prediction)

<http://blogs.discovermagazine.com/badastronomy/2012/08/20/planetary-alignment-pyramid-scheme/#.VMjredKUeE0>

<http://blog.world-mysteries.com/science/2012-and-the-pyramids-at-giza/>

<http://beforeitsnews.com/alternative/2012/08/december-3rd-2012-planets-align-with-giza-pyramids-for-the-1st-time-in-2737-years-2454374.html>

<http://mysteriesunsolvedstory.blogspot.ru/2012/02/2012-and-pyramids-at-giza.html>

<http://beforeitsnews.com/alternative/2012/08/december-3rd-2012-planets-align-with-giza-pyramids-for-the-1st-time-in-2737-years-2454374.html>

<http://alamongordo.com/apocalypse-armageddon/3-planets-balanced-giza-pyramids-december-3-2012/>

<http://galacticconnection.com/mercury-saturn-and-venus-aligned-on-dec-3-2012-with-the-pyramids-at-giza>

[https://www.youtube.com/watch?v=-y\\_OAdAAdes](https://www.youtube.com/watch?v=-y_OAdAAdes)

<http://galacticconnection.com/mercury-saturn-and-venus-aligned-on-dec-3-2012-with-the-pyramids-at-giza/>

<http://blogs.discovermagazine.com/badastronomy/2012/08/20/planetary-alignment-pyramid-scheme/>

<http://astroblogger.blogspot.com.au/2012/08/no-there-will-not-be-planets-aligned.html>

<http://www.ronpaulforums.com/showthread.php?397336-Planets-Aligned-with-Pyramids-of-Giza-1st-Time-in-2-737-Years-12-3-2012>

<http://www.stuffwecomeupwit.com/planetary-alignment-that-will-take-place-dec-3-2012-on-top-of-pyramids/>



<http://www.godlikeproductions.com/forum1/message2067960/pg1>  
<http://www.godlikeproductions.com/forum1/message2068942/pg1>  
<http://blogs.nature.com/houseofwisdom/2012/08/planets-alignment-on-pyramids-image-is-not-very-accurate.html>  
<http://2012thebigpicture.wordpress.com/2012/12/01/significance-of-the-giza-pyramid-planetary-alignment-on-december-3rd-2012/>

**I- References for the 2737 Egyptian phenomenon actual occurrence**

**(the 3 planets alignment actual records) on 3<sup>rd</sup> December 2012**

<http://earthsky.org/space/photos-from-friends-december-3-2012-line-up-of-three-planets>  
<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>  
<http://sciencespiritizer.fullblog.com/alignment-of-planets-on-the-pyramids-12032012.html>  
<http://beforeitsnews.com/alternative/2012/12/3-pyramides-of-gizeh-3-dec-2012-star-alignement-confirmed-2507300.html>  
<http://beforeitsnews.com/alternative/2012/12/3-pyramides-of-gizeh-3-dec-2012-star-alignement-confirmed-2507300.html>  
<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>  
<http://forum.gdvplanet.com/topic/369-planets-align-with-giza-pyramids/>  
<http://missiongalacticfreedom.wordpress.com/2012/12/02/december-3-2012-planetary-alignment-with-giza-pyramids-orions-belt/>  
<http://modernsurvivalblog.com/space/planetary-alignment-with-pyramids-of-giza/>  
<http://sciencespiritizer.fullblog.com/alignment-of-planets-on-the-pyramids-12032012.html>  
<http://beforeitsnews.com/alternative/2012/12/3-pyramides-of-gizeh-3-dec-2012-star-alignement-confirmed-2507300.html>  
<http://noliesradio.org/archives/54484>

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

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<http://astrobob.areavoices.com/2012/11/26/rare-dec-3-planet-alignment-over-egyptian-pyramids-well-sort-of/>

<http://galacticconnection.com/mercury-saturn-and-venus-aligned-on-dec-3-2012-with-the-pyramids-at-giza/>

<https://missiongalacticfreedom.wordpress.com/2012/12/02/december-3-2012-planetary-alignment-with-giza-pyramids-orions-belt/>

[https://www.youtube.com/watch?v=-y\\_OAdAAdes](https://www.youtube.com/watch?v=-y_OAdAAdes)

<https://www.youtube.com/watch?v=-jf5goxK41A>

<https://www.youtube.com/watch?v=-jf5goxK41A>

## Appendix No. 2

### Historical and philosophical Data about 2737 Egyptian astronomic Phenomenon

#### First: The 2737 Phenomenon Chronology

##### I- THE YEARS

##### 1- The 2737 Phenomenon 3<sup>rd</sup> Repeat

It occurred on 3<sup>rd</sup> December 2012

##### 2-The 2737 Phenomenon 2<sup>nd</sup> Repeat

It occurred at 725 years before The Lord Jesus Christ (notice/ 365 days of Sidereal year +360 days of Basic Lunar year = 725 days.. if we considers the **one day equals one year** (Number 14: 34), if we use this as a measurement for the star (i.e. the one day of the star = one year of the people) that means this 725 years of the people equals 2 years of the star) where the bible defines the period of the star is 2 years (Matthew 2: 16) and this 2 years for the star is 725 years for the people... that says to us the Bethlehem Star was a real star and found before the Lord Birth by 725 years, and the magi monitored this star all this time and visited Israel land at the completion of the period, and because they were afraid from the King Herod they said to him the period without explanation (Matthew chapter 2: 7-18)

##### 2-The 2737 Phenomenon 1<sup>st</sup> Repeat

It occurred in 3462 before Christ our Lord.. and in this year the Almighty Lord descended on the Sinai Mountain...

##### The accounts be as following/

From Ibrahim the Father of Isaac to The Lord Jesus Christ 42 generations (Matthew 1<sup>st</sup> chapter: 1-17) this equal 4200 years

**Minus** (100 years age Ibrahim at Isaac Birth + 60 years age of Isaac at Jacob Birth + 147 Jacob years old + 430 years the staying of Israel people in Egypt ... this all equals 737 years and the Exodus year is 738 because Aviv Month became the first month on the ancient Jews year according to the Lord order (exodus 12: 2)

4200- 378 = 3462 before Christ

And all these number easily found  $2012 - 2737 = -725$  (i.e 725 BC)  
( $725 + 2737 = 3462$  BC)

So The 2737 Egyptian phenomenon year are as following:

- The phenomenon 1<sup>st</sup> time occurred in 3462 Before Christ
- The phenomenon 2<sup>nd</sup> time 725 before Christ
- The phenomenon 3<sup>rd</sup> 2012 AC

## **II- THE MONTHS**

In the first time the ascending of the Almighty Lord on Sinai Mountain was in the third month of the first year...

I guess the phenomenon occurred with "**the sound of the trumpet was very loud**" (Exodus 19: 16)

That happened in the third month (**where Aviv month was the first month**)

But the remembrance festival should be in the first day of the seventh month (Num 29: 1-6)!!!

**The seventh Month in the ancient Jews calendar is the Twelfth Month in our Calendar which is December**

That because the Month Aviv Become the First month in the ancient Jewish calendar..

So the month of this phenomenon is December always (and the ancient Egyptian interest of the date 21<sup>st</sup> December supports this idea)

## **III- THE DAYS**

The first time was on 1/12/3462 before Christ

But our time of the 2737 Phenomenon occurred on 3<sup>rd</sup> December 2012AC

And that means the days transferred with the repeat time, i.e.

- The 1<sup>st</sup> time occurred on the 1<sup>st</sup> day of the December
- The 2<sup>nd</sup> time occurred on the 2<sup>nd</sup> day of the December
- The 3<sup>rd</sup> time occurred on the 3<sup>rd</sup> day of the December

**And then the correct dates as following**

- **1/12/3492 BC (2737 phenomenon first time)**
- **2/12/725 BC (2737 phenomenon second time)**
- **3/12/2012 AC (2737 phenomenon third time)**

**Note/**

The numbers consistency between the real astronomic events with the bible dates means that there's no mistake in the accounting of the lord Christ birth date, and that means Our Lord Jesus Christ is born in the 1<sup>st</sup> AC ( specifically on 1<sup>st</sup> day of January of 1<sup>st</sup> AC – the holy pregnancy first day was on 27/3/1 BC – and that because the saint Noah came out of the ship on 27/2/601 (Gen 8: 14) and that was the **second Birth of the humanity** for that **the month was the second month** and so **the third birth of the humanity will be our Lord Birth which should be on twenty seventh day of the third month**, i.e, 27/3/1BC, while the period from this date to the birth on 1/1/1AC is equal 273 days and this number is mentioned on (Num 3: 46) while The Scientist Origen Said that's the period needed for the child to be born. (Origen -Number book 1<sup>st</sup> part)

**Second: The distance 2737 Million kilometers**

The distance from the planet Venus to planet Uranus equals 2737 millions kilometers

But not exactly from the planet Venus, but after it

At a point in distance between The Venus and The Earth

At distance 25 M km from the Venus and at distance 17 M Km to the Earth

From this point to planet Uranus this distance is 2737 Million Kilometers

Has this distance any relation to the phenomenon 2737 or that just happened by a chance? This question I'll write with others in the appendix no. 2

**Third : Another Information About 2737 Phenomenon**

It's very strange information

From Genesis chapter 5 we found

- Adam age was 930 years (the 1<sup>st</sup> human)
- Seth age was 912 years (the 2<sup>nd</sup> generation)
- Mahalalel age was 895 years (the 5<sup>th</sup> generation)

**So  $930 + 912 + 895 = 2737$  years!!!!**

Not only their ages totality equals the Egyptian phenomenon period  
But also their order

Because the phenomenon planets are

- **Mercury** (the first planet near the sun)
- **Venus** (the second planet near the sun)
- **Saturn** (The fifth planet near the sun if we don't account the earth)

Now, that must be happened by chance!!! Otherwise who can explain such puzzle!!!!

In reference to Point No. 6 (the Light Source), I assumed the Light is a human spirit! Now we see The human behaves as a planet!!!

Puzzle still even more complex!

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#### EDUCATION

- Moscow – Peoples Friendship University Of Russia  
– Since 2010 Till 2012 – Faculty Of Science  
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- A Training Course Russian language - Nizhniy  
Novgorod – Russia - during 2007- 2008 .

- Goethe Institute In Cairo During 2001- 2006

- Bachelor degree of commerce Ain shams university  
– Cairo 2000

- Additional studies of philosophy & theology

#### LANGUAGES

- Mother tongue is Arabic language
- English language
- Russian language
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#### Work

Translation, proofreading, and editing.






#### Computer Skills

work with MS Office (Word, Excel, Power Point, etc.),  
Adobe Acrobat (full), WinZip, WinRar, etc.

#### PERSONAL DATA

- Date of Birth : 09/10/1974 – Cairo.
- Martial status : Single
- Nationality : Egyptian
- Religion : Christian

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

Фамилия, имя, отчество	<b>Гергес Фрэнсис Тавдрус Гергес</b>	РОССИЙСКАЯ ФЕДЕРАЦИЯ
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Вступительные испытания	прошел	ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ
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Нормативный период обучения по очной форме	4 года	ПРОФЕССИОНАЛЬНОГО ОБРАЗОВАНИЯ
Направление/специальность	<b>Физика</b>	<b>«Российский университет дружбы народов»</b>
Специализация	не предусмотрена	<b>АКАДЕМИЧЕСКАЯ СПРАВКА</b>
Курсовые работы:	1. По молекулярной физике, удовлетворительно 2. По информатике, удовлетворительно	АВ 3048222
Практика:	не проходил	5429/Н
Итоговые государственные экзамены:	не сдавал	(регистрационный номер)
Выполнение выпускной квалификационной работы	не выполнял	11 сентября 2012
Продолжение см. на обороте		года (дата выдачи)
Документ содержит количество листов:		Ректор 
		Декан 
		Секретарь 
		
		Лист № 1



### 1<sup>st</sup> Equation

## Gerges Equations

The Planets Gravity=

$$= (\text{Earth Diameter} / \text{Planet Diameter})^{2*} (\text{Planet Mass} / \text{Earth Mass}) * \text{Earth Gravity}$$

### 2<sup>nd</sup> Equation

The Planet orbital Period= The Previous Planet period \* his orbital inclination (or Axial tilt)

### 3<sup>rd</sup> Equation

The Planet Mass=

$$= 0.073 * 10^{24} \text{kg (moon Mass)} * 224.7 (\text{Venus orbital period}) * F(x)$$

(where F(x) is a function in the required Planet/ moon diameters rate with orbital inclination & Axial Tilt of The required Planet, Venus & Moon)

### 4<sup>th</sup> Equation

THE PLANET ORBITAL DISTANCE =

$$= (\text{Plant Diameter} / \text{Earth Diameter}) * \text{Earth Orbital Distance 1 AU} * \text{The Orbital Inclination of the Previous Planet.}$$

### 5<sup>th</sup> Equation

$$\text{Planet Orbital inclination} = 13.18 * (F(x))$$

Where:

13.18: The Moon Motion degrees daily = (360/27.3days)

F(x) Is A Function Of The Planet & Moon OI & AX

## Planetary Fact Sheet - Metric

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

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