

## Definition of Space

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### Abstract

#### The Space is Energy

This fact can be proved directly by Earth Jupiter Distance Analysis (627 million km)

That means the matter and distance are created from Energy regardless their different forms (The sun rays is different from the oil but both are energy)

This fact supports the main idea in my research that:

The solar group is a trajectory of Energy and each planet is a point on this trajectory.

### This paper aims to support my claim against Nobel Prize Board Decision – in Physics -2018?

I provided the claim reason in my previous paper

Kepler 3<sup>rd</sup> Law Explanation (a Claim Against Nobel Prize Board Decision in Physics 2018)

<http://vixra.org/abs/1810.0053>

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## **1- Introduction**

All my ideas and suggested theories depend on solar planets data analysis..

For example,

When we found that "d" (Mercury orbital distance) = "r" (Mercury diameter) x  $109^2$  , and found that Earth and Saturn follow this same Equation perfectly

(please review this Equation in "kepler 3<sup>rd</sup> law Explanation" <http://vixra.org/abs/1810.0053>)

The previous data pushed me to expect that, there's a relationship between the planet diameter and his orbital distance.... based on this expectation the following questions were produced...

Is there a real relationship between the planet diameter and his orbital distance? How this relationship can be created? And why some solar planets follow the Equation and other planets don't?

The total solar eclipse phenomena supports the claim that, there's a relationship between the planet diameter and his orbital distance...we can find this support when we answer our old question... why we see the sun disc = the moon disc? Because (Sun diameter / Moon diameter) = (Earth orbital distance /Earth moon distance)... why the diameters rate = the distances rate? The usual answer was "**by pure coincidence**" in this case nothing can be learnt ....!

But if the diameters rate = the distances rate because of **a geometrical reason** that will push us to conclude that the planet matter and orbital distance must be created together as a complementary to each other...

Theoretically how it's possible to find a relationship between the planet diameter and his orbital distance?

Or to answer the direct questions ... How the matter is created? What's the space?

We know the matter is Energy ( $E= mc^2$ ), so if the matter and distance are created together as a complementary to each other..

That means **the Space also is Energy**...

Let's describe that in details...

The matter is created in motion and for that the matter needs a space to move in...

That means each part of matter is connected with a part of space and the general space is produced by summation of all these parts...

Shortly, I claim that the planet matter and orbital distance both are created from the same energy regardless their difference in forms.

Now the solar group description will be different... because the distances between the planets no longer be a space separates the planets from each other but becomes an Energy trajectory.... And we know the planet matter is Energy also.. that provides 2 results:

- 1- The Planet mass is NOT independent but dependent on other planets data
- 2- The solar group is one Trajectory of Energy and each planet is a point on it.

- The previous conclusions explain the reason of the solar group motions harmony...

## Let's explain the result No. 2

- The solar group is created from one Energy. This energy creates the planet matter and his orbital distance as a complementary to each other. That means the planet data is created to be suitable for the planet motion which guarantees the solar group motions general harmony.
- So the solar group is similar to a great river has many canals where these canals created soils on their banks. So the river, canals and soils all of them are created from the same water (matter and space are created from the same energy) which guarantees the motions general harmony.
- Also the solar group is similar to one machine or body and each planet is a member in this body, where all members are connected together by the same blood (the same energy)... That makes the distances between the planets as trajectories of Energy and the planets as a store points of Energy which makes the solar group as one body.

## Let's discuss the result No. 1

one of the classical mechanics pillars is the mass definition, where the mass independency is a doubtless fact! Now how we can explain this result that the mass is dependent on other planets data?

In my previous paper "Solar Planet Gravity Equation" <http://vixra.org/abs/1808.0012>

I provided an Equation defines the planet gravity based on his diameter and mass rates with the Earth... I have showed that **the sun herself follows** this same equation which supports my claim that the solar group is one machine or one body, each planet is a member in it.

In fact this description "**the solar group is one body**" shows a great importance for the planets integration and cooperation.

But if this description is correct, the planet mass can't be independent from the planets other data to support the solar planets motions general harmony.

This paper tries to prove 2 claims

- 1- The space is Energy
- 2- The planet mass is NOT independent but dependent on other planets data.

## **The Study Main Objective**

This paper supports the main idea that the solar group is one Trajectory of Energy, and each planet is a point on this trajectory (or one body and each planet is a member in this body)

(For the question, why some planet follow the Equation  $d = r \cdot 10^9^2$  but others don't? that because of Mars Immigration ... review Mars Immigration Proves (Revised) <http://vixra.org/abs/1807.0268>)

## **2- Methodology**

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

Let's explain the idea here again

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

### **3- Earth Jupiter Distance 627 mkm**

#### **Data**

#### **Group No. I**

Equation No. 1

The period 6939.75 seconds  $\times c^2 = 627$  million km

Equation No. 2

The Value 6939.75  $= 2666.7 \times 2.6$

Equation No. 3

940 mkm  $= 361$  degrees  $\times 2.6$

Equation No. 4

1/2.6 mkm  $= 0.384$  mkm

#### **Group No. II**

Equation No. 5

1898  $\times 0.33 = 627$

Additional Equation No. c

102  $\times 5.97 = 609$  (this value = 627 with error 2.8%)

#### **Group No. III**

#### **Equation 7**

$$\frac{1898 \times 10^{24} \text{ kg Jupiter Mass}}{568 \times 10^{24} \text{ kg Saturn Mass}} = \frac{2088 \text{ mkm Jupiter Ur anus Distance}}{627 \text{ mkm Earth Jupiter Distance}}$$

d- 1898 km  $\times 627$ km = 1.19 mkm

#### **Equation 8**

2666.7  $\times 10^{24}$  kg (solar group total Masses) = 2466.7 (rate 13.4) + 200 (rate 1)

### 3-1 The Discussion of Data Group No. I

In my try to understand the solar group geometry I found that, our Geometry Science is insufficient to explain the solar group geometry where many new rules we need to learn to see much better the picture...

Let's discuss one example in following..

We know the  $E=mc^2$  ... where  $m$  = mass and  $E$ = Energy

Let's see our Equation ...

#### Equation No.1

The period 6939.75 seconds  $\times c^2 = 627$  million km ...

How to understand this equation?

The light with  $c$  velocity (0.3 mkm/sec) needs 6939.75 seconds to cover a distance = **2088** mkm (Jupiter Uranus Distance)....

The light with  $c$  velocity also needs **2088** seconds to cover a distance = 627 mkm (Earth Jupiter Distance)

So, if we suppose that the value 2088 mkm works as 2088 seconds for some geometrical reason, that makes Equation No.1 consistent

But what does Equation No.1 tells us?

$mc^2=E$ ...! 6939.7 seconds is a period and NOT mass where 627 mkm is a distance and NOT Energy (my hypothesis is ..... Distance = Energy)

How can we understand this Equation?

Let's see Equation No.2

#### Equation No.2

6939.75 = 2666.7  $\times$  2.6

Let's define the previous values

- 6939.75 seconds are needed for light ( $c$  velocity) to cover Jupiter Uranus Distance 2088 mkm, and also 6939.75 days is Metonic Cycle...
- 2666.7  $\times 10^{24}$  kg = the Solar Planets Masses Total

Note Please

In all Masses Equations the factor  $10^{24}$  is the main problem, till now I didn't solve it. so I have to ignore it in my discussion till we reach to the general accurate description...

#### What does Equation No.2 tell us?

The Solar Planets Total Masses 2666.7  $\times 10^{24}$  kg can be seen as Metonic Cycle Period (or light travel period ) **Based On The Rate 2.6**

The Masses total is seen as a period of time.... This idea isn't very strange because we know mass = Energy and distance = Energy where I claimed that the time and distance values can be equivalent in some solar planets data (this equivalence I claimed is found because of high velocity motion – please review the time definition <http://vixra.org/abs/1805.0523>)

#### Shortly

The solar group is created from one energy, where the mass and distance both are created from the same energy. So the energy is seen by us as masses or as distances but we know that the time and distance values sometimes can be equivalent... that's why the Masses can be seen as a period of time...

The masses value is seen as a period of time based on this rate 2.6 and **what's this rate?**

### **3-2 The Rate 2.6**

**I- Data** .....Equation 3 and 4

3- 940 mkm = 361 degrees x 2.6 mkm

4- 1/2.6 mkm = 0.384 mkm .....Please Note also the following

a- 180 degrees = 177.4 degrees (Venus axial tilt) +2.6 degrees

b- 2.58 mkm (Earth daily velocity) x 6939.75 days (Metonic Cycle Period) = 18000 mkm (Uranus orbital Circumference)

### **II- Discussion**

**2.6** isn't just a number

This value defines Earth and moon interactive motions ..

Venus axial tilt needs 2.6 degrees to be 180 degrees ...

And we know that .....1 degree = 1 mkm

So 2.6 degrees = 2.6 mkm .....But

1/2.6 mkm = 0.384 mkm (Earth Moon distance in average orbit radius)

That tells us the moon defines his position from Earth based on the value 2.6 mkm

### **Equation No. 3**

940 mkm (Earth orbital Circumference) = 361 degrees x 2.6 mkm

Equation No. 3 tells us that, if Earth revolution around the sun is divided by 361 degrees, each 1 degree will equal 2.6 mkm ... now we can see that the rate 2.6 expresses a relationship between Earth and Venus, by this relationship the Moon is created (with Support from Uranus!)... That supports my claim "the moon belongs to Venus and Earth". (For example the moon orbit regress 19 degrees yearly.. but 19 degrees =  $2\pi * 3.02$  degrees, where Venus daily motion =3.02 mkm)

Any way Equation No.3 tells us one more important information that, the Earth revolution total degrees aren't 360 degrees but 361 degrees and why?

Because 19 degrees (the moon orbit regresses yearly) x 19 sidereal years = 361 degrees (total degrees of Metonic Cycle)...

That means **Earth rotates Metonic Cycle** with her moon but this Cycle isn't seen in Earth motion (unknown reason till now) but the Cycle is seen in the moon motion...!

### **Equation No. b**

2.58 mkm (Earth daily velocity) x 6939.75 days (Metonic Cycle Period) = 18000 mkm (Uranus orbital Circumference)

Shortly Earth moves during Metonic Cycle a distance = Uranus Orbital Circumference... in my previous paper "Does The Moon move by Gravity?" <http://vixra.org/abs/1810.0089> I explained the strong relationship between the Moon and Uranus which tells us that Earth rotates in fact Metonic Cycle.

### **The conclusion**

Metonic Cycle effects on more than one planet motion (Moon, Earth and others), that because... Metonic Cycle Period (in days) is born from the light travel period (in seconds) from Jupiter to Uranus, and this period is the energy which causes Metonic Cycle from which The solar planets Masses total is found depending on Earth-moon interactive motions (the rate 2.6) ...

Shortly....  $E=mc^2$  this equation control our Equation 6939.75 seconds x  $c^2 = 627$  mkm

Where ...6939.75 seconds expresses the solar planets total Masses

627 mkm expresses the resulted energy (distance = energy)

### **3-3 The Discussion of Data Group No. II**

$$5- 1898 \times 0.33 = 627$$

Also

$$c- 102 \times 5.97 = 609 \quad (=627 \text{ with error } 2.8\%)$$

In my paper (solar Group Geometry Part I <http://vixra.org/abs/1509.0126>)

I have discussed the following fact:

Earth mass = 4 planets total masses (Mercury + Venus + Moon + Mars)

(in fact 4 planet masses = 99% of Earth Mass)

And I have asked why...? We may remember Anderson experiment which produced electron and positron from Gamma rays (1.2 mev) (2 particles equal in mass and different in charge)

Let's imagine that the 5 inner planets are produced from great Gamma rays, which produced one great electron (Earth) and one great positron (Mercury+ Venus+ Moon + Mars)

What does mean the great electron?

Earth atom has a positive nucleus and negative charges move around

But what does mean the great positron?

The 4 inner planets atoms have a negative nucleus and positive charges move around...

Now the attraction between the 5 inner planets depend on the charges attraction and not on the gravity...

Based on this old description let's try to understand the previous equations...

#### **Equation No. 5**

$$1898 \times 10^{24} \text{ kg (Jupiter Mass)} \times 0.33 \times 10^{24} \text{ kg (Mercury Mass)} = 627 \times 10^{48} \text{ kg}$$

I ignore the factor  $10^{24}$  ...! And then the Equation will be

$$1898 \times (\text{Jupiter Mass}) \times 0.33 (\text{Mercury Mass}) = 627 \quad (\text{Earth Jupiter distance} = 627 \text{ mkm})$$

$$M1 \times M2 = E$$

We know if electron collide with positron the result will be Energy....!

We have 2 masses collide with each other and the result is **the same distance 627 mkm**

I understand that the factor  $10^{24}$  effects greatly in the equation explanation, but we may consider that as units configuration.. for example 627 is million km and not km... that means the factor  $10^{24}$  may be consumed in unit configuration process.

So equation no.5 tells us that 2 solar planets masses collision produced this distance 627 mkm which we should consider as Energy...

I wish the reader sees that we use 2 physical equations ( $E=mc^2$  and  $E= m1m2$ ) and we reach to the same distance 627 mkm ... I see some support for my claim spite of its difficulty..

#### **Equation No. c**

$$102 * 10^{24} \text{kg (Neptune Mass)} \times 5.97 * 10^{24} \text{kg (Earth Mass)} = 609 \quad (=627 \text{ with error } 2.8\%)$$

Spite of the great error...

I see the same distance is produced...

I wish the reader sees with me that the planet data gives us **one clear direction.**

Yes I don't know the geometrical structure which is behind all this data but I can see easily that this data is produced related to each other and not independent which supports the main idea that the solar group is one trajectory of Energy...

### 3-3 The Discussion of Data Group No. III

#### Equation No. 7

$$\frac{1898 \times 10^{24} \text{ kg Jupiter Mass}}{568 \times 10^{24} \text{ kg Saturn Mass}} = \frac{2088 \text{ mkm Jupiter Uranus Distance}}{627 \text{ mkm Earth Jupiter Distance}}$$

$$d- 1898 \text{ km} \times 627 \text{ km} = 1.19 \text{ mkm}$$

#### Equation No. 8

$$2666.7 \times 10^{24} \text{ kg (solar group total Masses)} = 2466.7 \text{ (rate 13.4)} + 200 \text{ (rate 1)}$$

#### Equation No. 7

$$\frac{1898 \times 10^{24} \text{ kg Jupiter Mass}}{568 \times 10^{24} \text{ kg Saturn Mass}} = \frac{2088 \text{ mkm Jupiter Uranus Distance}}{627 \text{ mkm Earth Jupiter Distance}}$$

We have studied the distance 2088 mkm (Jupiter Uranus Distance) frequently, and we know that this distance is Metonic Cycle energy source where the light with c velocity needs 6939.75 seconds to pass from Jupiter to Uranus...

And we have studied in Equation no.1 (627 mkm = 2088 seconds x c velocity), that means both distances are important and related to each other strongly

But

What does Equation No. 7 tell us?

Equation 7 tells us that, Jupiter mass/ Saturn Mass = distance 2088 / distance 627... but we know that the distances 2088 and 627 are related to each other...

**Does that mean Jupiter Mass and Saturn Mass are related to each other?**

Let's see Equation No. 8

#### Equation No. 8

$$2666.7 \times 10^{24} \text{ kg (Solar Planets Total Masses)} = 2466.7 \text{ (rate 13.4)} + 200 \text{ (rate 1)}$$

$$2666.7 \times 10^{24} \text{ kg} = \text{(Solar Planets Total Masses)}$$

$$2466.7 \times 10^{24} \text{ kg} = \text{Jupiter Mass} + \text{Saturn Mass} \quad (\text{rate 13.4})$$

$$200 \times 10^{24} \text{ kg} = \text{rest planets masses total} \quad (\text{rate 1})$$

What does that mean?

The solar planets masses total 2666.7 is divided into 2 parts by rate 13.4 to 1

The rate 13.4 produced the value (2466.7 x 10<sup>24</sup> kg = Jupiter Mass + Saturn Mass)

and the rate 1 produced (200 x 10<sup>24</sup> kg = the rest planets masses total)

Why this rate 13.4 is important?

Please review my paper Solar Group is one machine <http://vixra.org/abs/1808.0081>

Where I classified the solar planets data into 5 rates which are (1.392/1.9/3.66/**13.4**/179.56) (A, A<sup>2</sup>, A<sup>3</sup>, A<sup>4</sup>, A<sup>5</sup>)

Which means, the masses are divided according to other data division rate...

Which proves that the mass isn't independent from the other planets data

To see the masses division more clear we need to discuss the solar planets masses distribution, let's do it in following.....

#### **4- Solar Group Masses Distribution**

##### **I- Data**

- Solar Planets Masses Total =  $2666.7 \times 10^{24}$  kg
- This masses total is divided into 2 parts with rate 1:  $(3.66)^2 = 200 : 2467$
- $2467 * 10^{24}$  kg = Saturn Mass + Jupiter Mass
- The rest planets mass =  $200 * 10^{24}$  kg
- The rest planets mass =  $200 * 10^{24}$  kg is divided into 2 parts with rate 1: 1 ( $100 * 10^{24}$  kg Neptune Mass +  $100 * 10^{24}$  kg the rest planets masses total) (error 2%)
- $100 * 10^{24}$  kg (the rest planets masses) is divided into 88  $100 * 10^{24}$  kg Uranus Mass +  $12 * 10^{24}$  kg the rest planets masses total (error 1.4%)
- $12 * 10^{24}$  kg (The rest planets masses total) is divided into 2 parts with rate 1: 1 ( $6 * 10^{24}$  kg Earth Mass) +  $6 * 10^{24}$  kg (Total masses of Mercury + Venus + Moon + Mars)

##### **The rate 1:1**

In Anderson experiment to produce electron and positron from Gamma rays (1.2 Mev) the products were electron and positron whose masses are equal

i.e. The results rate was 1:1 ..... So,

The value 200 is divided into 1:1 to produce Neptune Mass and the rest planets masses (error 2%) .... Also

the value 12 is divided into 1: 1 to produce Earth mass and the 4 inner planets masses total

As we have discussed before, I noticed that Earth mass = 4 inner planet masses total and suggested that Earth is the great electron and the 4 planets together are the great positron..

That means the rate 1:1 may produce electron and positron and that may be occurred also with Neptune....

I want to say there's a resemblance in Mass distribution with Earth and Neptune... as we have seen...

Let's see the following Equation

- Earth Circumference = 5 inner planets diameters total (with Earth) (no error)
- 2 x Neptune Circumference = 4 outer planets diameters total (without Neptune) (error 1.8%)

I wish we see clearly the resemblances between Earth and Neptune in Mass and diameters..

This resemblance is found because

Earth Neptune distance  $\times 2\pi^2 = 86400$  mkm (the solar group main energy)..I wish it's clear that this data is produced based on a geometrical structure which guarantees the motion general harmony...

For more clear discussion please review

Solar Group Geometrical Structure

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

### More Relationships

$$1\text{st-} \frac{\text{Uranus Mass}}{\text{Earth Mass}} = \frac{\text{Venus Mass}}{\text{Mercury Mass}}$$

$$2\text{nd-} \frac{\text{Earth Mass}}{4 \text{ Planets Masses Total}} = \frac{\text{Neptune Mass}}{\text{rest planets masses total}} = 1$$

$$3\text{rd-} \frac{\text{Satrun Mass}}{\text{Moon Mass}} = \frac{\text{Neptune Mass}}{\text{Pluto Mass}} \quad \text{(No Error)}$$

$$4\text{th-} \frac{\text{Jupiter Mass}}{\text{Earth Mass}} = \frac{2 \text{ Neptune Mass}}{\text{Mars Mass}} \quad \text{(No Error)}$$

$$5\text{th-} \frac{\text{Earth Mass}}{\text{Mercury Mass}} = \frac{\text{Uranus Mass}}{\text{Venus Mass}} \quad \text{(Error 1.5\%)}$$

$$6\text{th-} \frac{\text{The Sun Mass}}{\text{Satrun Mass}} = 2 \times \frac{\text{Satrun Mass}}{\text{Mercury Mass}} \quad \text{(Error 1.6\%)}$$

$$7\text{th-} \frac{\text{Jupiter Mass}}{\text{Earth Mass}} = \frac{\text{Neptune Mass}}{\text{Mercury Mass}} \quad \text{(Error 2.8\%)}$$

$$8\text{th-} \frac{\text{Neptune Mass}}{\text{Inner Planets Masses Total}} = \frac{\text{Mars Mass}}{\text{Moon Mass}} \quad \text{(Error 2.4\%)}$$

$$9\text{th-} \frac{\text{Inner Planets Masses Total}}{\text{PLuto Mass}} = \frac{\text{Satrun Mass}}{\text{Mars Mass}} \quad \text{(Error 2.4\%)}$$

$$10\text{th-} \frac{\text{Outer Planets Masses Total}}{\text{Neptune Mass}} = \frac{\text{Mercury Mass}}{\text{Pluto Mass}} \quad \text{(Error 2.5\%)}$$

### The Discussion

I try to prove clearly that, the planet mass isn't independent from other planets masses and data...

In fact it's impossible to be independent from other planets data because the planets motions general harmony is performed by general harmony of the solar planets data....

If this harmony isn't performed, there's no way to produce the solar planets motions general harmony...

**5- The Energy E= 627 mkm**

I- Data

9-  $E = 627 = 227.9 \text{ mkm} \times 2 \times 1.3756 \text{ mkm}$  (= 99% of the sun diameter 1.392 mkm)

10- Lunar umbra length = the sun diameter

**Equation No.9**

**$E = 627 \text{ mkm} = 227.9 \text{ mkm} \times 2 \times 1.3756 \text{ mkm}$  (= 99% of the sun diameter 1.392 mkm)**

Where

227.9 mkm = Mars orbital distance

1.392 mkm = the sun diameter

What does Equation No.9 tell us?

The sun diameter is created based on the distance 627 mkm (Earth Jupiter Distance) by using Mars orbital distance 227.9 mkm... why?

I don't know.... But we know that Mars axial tilt 25.2 degrees is the constant in kepler 3<sup>rd</sup> law table... let's remember it here again ...

If we use Kepler 3<sup>rd</sup> Law for the solar group data, we will find the following table

$$P^2 * 25 = d^3 \text{ (Kepler 3}^{\text{rd}} \text{ Law)}$$

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

The results are shown in the following table

<b>Table No.1</b>				
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%

**Comment:**

The previous table I used many time in my papers, I have no explanation why Mars Axial Tilt is the constant in Kepler 3<sup>rd</sup> Law..

Some people told me I use wrong units to reach this result! I use million km for distance and day for periods.. why these are wrong units?!

**For Mars full discussion please read**

Solar Planets Order disproves the Gravity Theory <http://vixra.org/abs/1801.0114>

Mars axial tilt is the constant in the table, and Mars data importance can be more clear by revision of my paper

Kepler 3rd Law Explanation (a Claim Against Nobel Prize Board Decision in Physics 2018)

<http://vixra.org/abs/1810.0053>

## Equation No. 10

Lunar umbra length = The Sun Diameter

Lunar umbra is found in the distance between Earth and Mars...

Let's summarize the whole idea in following

The distance 627 mkm (Earth Jupiter distance) is produced as Energy from many different equations...

The sun diameter is created based on this distance 627 mkm

Earth, Mars, Jupiter and Uranus with the moon are the main players in the sun production process

That's why each planet has specific relationship with the sun

- The sun diameter = Jupiter diameter  $\chi\pi^2$  (error 1.4%)
- The sun circles Earth to complete the cycle in 365.25 days (Earth orbital period)
- 63.7 degrees (sun declination) = 25.2 degrees Mars axial tilt x 2.5 degrees (Saturn orbital inclination) (note Mars orbital circumference = Saturn orbital distance)
- Lunar Umbra length = The Sun diameter (the umbra locates between Mars and Earth)

## Author Other Papers

Does The Moon move by Gravity?

<http://vixra.org/abs/1810.0089>

Kepler 3rd Law Explanation (a Claim Against Nobel Prize Board Decision in Physics 2018)

<http://vixra.org/abs/1810.0053>

Metonic and Saros Cycles Harmony Reason

<http://vixra.org/abs/1809.0559>

The Solar Group Main Equation (Part 2)

<http://vixra.org/abs/1809.0468>

The Solar Group Main Equation

<http://vixra.org/abs/1809.0186>

The Solar Group Main Energy

<http://vixra.org/abs/1809.0152>

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