

## **Simultaneity Role in The Solar System (SR Discussions)**

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### **1- Abstract**

One of the basic difficulties I have faced with the Special Theory of Relativity....is

#### **What's happened on the next day after the relativistic effects?!**

We know  $L_0$  will be contracted and be  $L_1$  - and  $t_0$  will be longer  $t_1$  – also  $m_0$  will be greater  $m_1$  But how these values will live their rest of lives?!

Imagine we have a rectangle its length  $L_0$  now if this length be contracted by lorentz length contraction phenomenon to become  $L_1$  – is this new length will work as the rectangle length or this position will change....?

Shortly

#### **How the relativistic system will cooperate with the non-relativistic one?**

Special Theory of relativity gives us a short information – it's a story for what's happening in accident – but what will happen after?.... we don't know!

Now I wish to write my conclusion how Einstein created this theory....

While Einstein depends on hundreds of electrodynamics experimental results and many of new discoveries in particle motion analysis – he had a very hard job to find the cooperation point between all this material –

In addition to his incredible brilliant intelligence – he was so brave warrior to accept such heavy job to do

The theory gives us incomplete picture –because – he didn't allow himself to provide imagination has no proves – so he provided the facts which are proved by experiments and their direct conclusions with so deep insights

Now this is almost the electrodynamics apex capacity – means – this is the highest result can reach by the 5 senses experiments – instead we have to use Data Analysis to see much deeper

We simply ask why they didn't use the data analysis? The difficulty here is in the experiment meaning in itself...

Because we don't know how the matter is created?, we don't really know the experiment tools which we use – Einstein told us that – we even didn't know how to use the time and distance values which we measure in labs that because we have wrong definitions about them

Shortly

If we search for a system in which a relativistic dimension has cooperation with non-relativistic one- so this system we can't be created in experiments – we have to find it in the nature itself –

Clearly we can't create such system – basically because we have no the required sufficient knowledge to do

I provide a clear claim here– I claim that the solar system has relativistic effects – and because the system works sufficiently – we conclude that the relativistic dimension cooperates with the non-relativistic one perfectly- and they consist together the solar system –

This idea gives us a chance to a new-approach analysis for the theory– let's start in following

### **Paper Content:**

(Point No. 3 ) The Solar System Concept

(Point No. 4) Earth Moon Orbital Motion as a system consisted of Relativistic & Non-Relativistic Dimensions Cooperation.

### **References**

Lorentz Length Contraction Analysis (SR Discussions) (Part III)

<http://vixra.org/abs/1911.0234>

Relativistic Effects Discussion

<http://vixra.org/abs/1907.0523>

My Research Hypotheses

<http://vixra.org/abs/1909.0406>

**2- Methodology** (Methodology Is Repeated In All My Papers) It's written in

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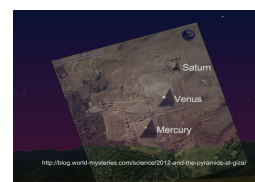
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All my papers [http://vixra.org/author/gerges\\_francis\\_tawdrous](http://vixra.org/author/gerges_francis_tawdrous)

**The Assumption Of S. Virgin Mary.**

Written in Cairo – Egypt

16<sup>th</sup> November 2019 (S. George)



### 3- The Solar System Concept

3-1 The Solar System Concept Hypotheses

3-2 The Simultaneity In The Solar Planets Data.

3-3 The Relative Simultaneity Discussion

#### 3-1 The Solar System Concept Hypotheses

1<sup>st</sup> Hypothesis

**There Are Relativistic Effects In The Solar System**

2<sup>nd</sup> Hypothesis

**The Solar System Is A Continuum**

The 2 hypotheses show apparent incompatibility with each other –let's try to examine that in following:

Suppose there are really relativistic effects in the solar system – the Special Theory of Relativity tells us

**"The Synchronous Events In One Frame Aren't Synchronous In Another One"**

So if the solar system has relativistic effects – there's no simultaneity can be found in it – if the simultaneity is found– The Solar System Can't Be A Continuum

The relativistic effects we have already discussed before

Now we need to discuss the Simultaneity question –

Again the theory states:

**"The Synchronous Events In One Frame Aren't Synchronous In Another One"**

What does that mean? does the event happen or not? are there 2 different events in 2 different frames?

The basic difficulty – which we deal with- when one system is consisted of 2 frames – in which relativistic dimension has to cooperate with the non-relativistic dimension  
How such system can work? Have we any such system to use?

I wish we keep through the paper our fellowship for the question .....what's happened after the accident? What happened after the relativistic effects be occurred? How the relativistic dimension cooperate with non-relativistic one?

(Note The 2<sup>nd</sup> hypothesis is a summation for the 5 ideas we have discussed before):

- **No.1:** Solar System is One building, each planet is a part of it
- **No.2:** The Solar Planets move together as carriages in one train
- **No.3:** Planet motion for 1 solar day depends on energy of light motion for 1 second
- **No.4:** Solar System Unified Motion depends On Solar Day Period
- **No.5:** Matter is created depends on its motion.

My Research Hypotheses <http://vixra.org/abs/1909.0406>

## 3-2 The Simultaneity In The Solar Planets Data.

### 3-2 -1 Are There Relativistic Effects And Simultaneity In The Solar System?

#### I- Relativistic effects

I have found strange data in the solar system, let's refer to it in following

Around 50% of all internal and orbital solar distances are rated to each other with the same = 1.0725

I had no explanation for this rate repeated using– So I had to suppose that this rate is found as Lorentz length contraction rate – please review

Lorentz Length Contraction Analysis (SR Discussions) (Part III)

<http://vixra.org/abs/1911.0234>

#### II- Is There Any Simultaneity In The Solar System?

##### Example No. 1 Earth & Moon Motions

(1) Earth daily moves a distance = 2.58 mkm = 0.985 degrees to complete 360 degrees in 365.25 days... i.e. Earth during 29.53 days move **29.2 degrees**

And

(2) The moon moves daily 2.58 mkm but the moon during the day moves 13.18 degrees to perform 360 degrees during 27.3 days

Means

- The moon during 29.53 days move a distance = 389.2 degrees

389.2 degrees – 360 degrees = **29.2 degrees** ....Why these values equal?

##### More Data

**Metonic Cycle Period 6939.75 days** = 19 x 365.25 days (Sidereal Days)  
= 235 x 29.53 days (Lunar Synodic Month)  
= 20 x 346.6 days (Nodal Year)

**Saros Cycle Period 6585.321 days** = 241 x 27.32 days (Lunar Sidereal Month)  
= 19 x 346.6 days (Nodal Year)  
= 223 x 29.53 days (Lunar Synodic Month)

Motions of Earth, Moon and Moon orbit regression are in harmony providing a clear Simultaneity

##### Example No. 2

Earth moves during its day a distance (24 hours) = 2.58 mkm

Earth moon moves during its day a distance (655.7 hours) = 2.58 mkm

Pluto moves during its day a distance (153.3 hours) = 2.58 mkm

If the distance value works as time value the data will be considered a simultaneity.

So if there are relativistic effects in the solar system how this Simultaneity can be found?!

### 3-3 The Relative Simultaneity Discussion

Let's remember our question

#### **What's happened on the next day after the relativistic effects?!**

SR tells us – the length is contracted but no explanation how this contracted length will work after –

SR states that

**"The Synchronous Events In One Frame Aren't Synchronous In Another One"**

What do we understand from these words? Is the event happened or not?

No progress we can do in our understanding unless someone answers the question –

**How the matter is created?**

Particle Length  $L_0$  will be contracted to be  $L_1$  – so the question is how  $L_0$  is created?  
And why it changes with high velocity motion?

Let's try to discuss the theory points in following regularly – may we can find some approach to help us to see better

## I- The Universe Reference Point

let's remember the previous paper question

**Is Lorentz length contraction a real phenomenon or illusion of measurements?**

We have 2 directions, to choose from:

(1<sup>st</sup>) to accept that – the particle own nature doesn't change and the contracted length is seen by illusion measurements – which will make the physics measurements methods un-trustee ....Or

(2<sup>nd</sup>) to accept that – the particle own nature changes with particle motion –

I choose the 2<sup>nd</sup> choice- Why?

Because – the 1<sup>st</sup> choice tells us that – The particle own nature is defined clearly when no difference in motions velocities between me and this particle – that means – I'm **The Universe Reference Point** – and this is similar to a person looks at a mirror

That's why we should refuse the assumption that "**Particle Own Nature doesn't Change**" or "**Proper Length  $L_0$  Never Change**". Simply these statements are untrue

Our brave action to refuse these statements – produce a real challenge before us –

Because this argument forces us to conclude that "**Particle Own Properties Are Created Based On the Particle Motion**"- If the Planet moves by masses gravity and the planet mass depends on its motion – how can we see the truth behind?

Now

Let's use the universe reference point argument with the Simultaneity discussion- the event is occurred while no difference in velocities between me and it – so the event is occurred relative to me – but not occurred relative to another frame – it's easy from Einstein train example – the observer sees light from A before the light from B now the observer will believe that A sent light before B – but it's not true?!

Simply the data will misguide us....

Again what about the system?

Now how this inaccurate data can effect on the system? For example the solar system works so accurately and the system can't be deceived by any wrong data because it's a machine works depending on its components (according to my description for the solar system) that means – even if the data which the observer received is mistaken that will not change the solar system accurate motions and the accurate data will be saved in the accurate motions –

Means ...The event happening is a fact not relative to the observer

We have now 2 versions of the solar system

The version which is observed by the observer and the truth version

The event must be occurred regardless the observer –that's why I'm not the universe reference point – but what's the real reference point?

If the solar system is a machine uses relativistic and non-relativistic dimensions regardless the observer observation –means – there's a reference point independent from the observer himself - this conclusion contradicts our last one...!

## II- Observer effects On Observation Results

**Why an electron or a subatomic particle would behave like a particle and not wave when it is observed?**

(1)

The human body contains electromagnetic pulses – the pulses travels through the human liquids with slow velocity but we know that in vacuum the electromagnetic waves will restore its c velocity- that may suggest the human mind realization process depends on light velocity – and that means we may see the world around us under relativistic effects while we don't know....

(2)

How the human can effect on the subatomic particle?

By knowledge and thinking process!

I suppose the human realization process depends on light velocity (or use light beam) and the thinking process may produce **Light Beam**

**So** – if the universe is created of electromagnetic waves (light beams) – so the human mind light beam may cause interaction or coherence with universe light beams and by such way the human realization process may effect on the universe around

(3)

**Shortly**

Based on the previous argument we have to suppose that – the universe of matter is created relative to light velocity and human mind realization process...

Where human realization process itself depends on light velocity

That means

This universe is **A Continuum**

It's NOT separated particles from each other – it's something continuum while the matter is created connecting with the energy depending on light motion and relative to human mind realization process

We live in a house made of our thinking and we think by this house effect on us

It's an environment similar to the sea and fish – but the effect is more deep – so our knowledge is created connecting with this same house

(4)

Now the Equation  $E=mc^2$  tells us why it express all matters masses regardless its type – because the light velocity is a player in all matters creation process- the motion is a player where the matter can't produced without motion

**OBJECTION**

This previous idea must be very imaginary one and untrue – because the universe doesn't change each minute based on the human thinking process...!

How to solve this dilemma?

The change is done based on quantized measurements- the human thinking energy (light beams) is stored and made the change based on quantized measurements...!

....What does that mean? based on public knowledge the universe reacts – the individual person does very little – he needs to make many other believe in his ideas – and by such way the change can be done

### MY COMMENT

So the observer effects greatly on the universe around – but if the solar system is one machine depends on relativistic and non relativistic dimensions and works so accurately – the observer effect may cause disturbance for this system – and we have to suppose that – the system reference point should be independent from the human realization process

This last conclusion – in fact – should be mistaken – and the system indeed depends on the human realization process – but nothing can be understood the light nature be more clear

So Let's discuss light nature may we find some approach to help us

### III- Light Nature and Motion

Light travels with  $c$  velocity =0.3 mkm/sec

When?

(1) In Vacuum

(2) In All Frames Of References

In liquid light travels with less velocity

So

All frames = Vacuum!!

Why the frames are different from each other? Because of high velocity?? It's the same answer ... all frames = vacuum!

What's the light?

It's the knowledge! Any child may answer by that.... but it's metaphysical meaning!

Not true ... because the knowledge and thinking in human mind produces light beams (hypothesis) and if this universe is created of electromagnetic waves – that means- by thinking & knowledge the human effect on the universe around....

So the light is knowledge ...truth

What's the darkness?

It's the absence of light! NOT True

Young tells us that – the coherence of light produce bright fringes and **Dark** fringes the darkness is produced by light coherence...

I try to show that – the nature of light has more secrets and can help us to see much better

The universe reference point must be the human realization process but the light nature is the main player in behind

Now let's define the planet in following....



#### IV- The Planet Definition

SR states that

#### **"The Synchronous Events In One Frame Aren't Synchronous In Another One"**

But the event is done because one energy provided it – It's the question which we searched for – the problem which we deal along this paper –

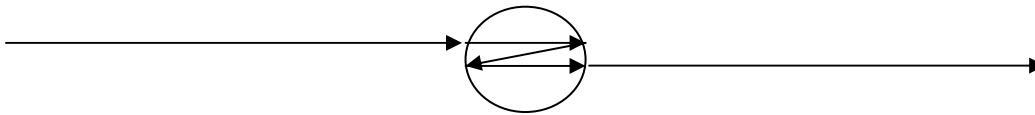
Because the event is provided by one energy – even the event is absent because of the high velocity what will happen with its energy?

Simply the event absence can't perish its energy.... it's found regardless whatsoever happened!

That's my basic concept in all papers – one energy works behind all solar planets (all puppets) – now we don't see the event but what about the energy?!

#### The Main Idea

I suppose the planet is consisted of electromagnetic waves – the planet is a knot in this energy trajectory – the energy enters the planet to build it from inside and get out similar to the figure



Based on this description we have found an answer – Why the following distances are equal?

- **Saturn** Orbital Distance = **Saturn** Uranus Distance
- = Mercury Orbital Circumference
- = Saturn Uranus Distance
- = Pluto Eccentricity Distance
- = Neptune Pluto Distance
- = 0.5 Uranus Orbital distance
- = 2 Mercury Jupiter distance

Because these are light beams reflected to each other...

Again how the matter is created?

The matter is created based on some relativistic effects according to the conclusion I can by data analysis – how that's happened it's still obscure for me?

But the planet matter is a player in this great drama...

So where the event energy?

I can't answer – because simply my be this event in found inside the planet – may be the Simultaneity absence is the nature plan to create a planet and by this absence may the energy creates the planet matter –

What does that mean? 2 events are not synchronous – but there's energy for both- as Einstein explanation- light of A comes to the observer before B – and then the observer went – and B energy still in space can't reach to its destination!

It's the basic point in this paper

The energy which isn't reach will be used to created a planet- and the required destination is a known point here – why? because the solar system is one machine – one circle – if the energy travels from any point MUST reach to its destination point

Now we have 2 results

(1) a planet is created by non- synchronous event ....and

(2) a destination point

what will happen now.....?

the planet will create a motion relative this destination point – here the meaning of the cycle will be born

### **V- The Cycle Definition**

Let's remember the moon mystery

The moon is a light beam sent from Uranus to Earth – this light beam velocity =0.3mkm/sec but the moon orbit is consisted of light beams whose velocity 1.16mkm/sec....

Now the moon (light beam) tried to pass its orbit to reach to the Earth!

While it does that – both light beams got coherence with each other – and based on this coherence the moon body is created and the moon (light beam) becomes a planet moves by masses gravity...

The moon tried to reach the Earth to transport the energy sent with him from Uranus but no hope – the gravity keeps the moon in his orbit can't be nearer –

Till the total solar eclipse occurring – through the Umbra the moon sends its energy to Earth Body....

Please review

Moon Orbital Motion Analysis <http://vixra.org/abs/1910.0080>

The Moon Indeed Moves by Gravity <http://vixra.org/abs/1910.0001>

Why does Earth Moon Orbit regress? <http://vixra.org/abs/1909.0064>

This mystery tells us how the cycle is created and why....!

### **How the cycle is created?**

We have 2 players here – the event which is not synchronous and the destination point – the cycle is created by these 2 players to transport the energy- to make one trajectory of energy passes through the solar group and not many trajectories....

The planet cycle provides us 2 important data

(1) It proves The Relativistic Effects ...and

(2) It tells how the energy is transported through the solar group

This subject we should discuss more deepen in next papers but now let's review the moon orbital motion as an example for a motion consisted of relativistic & non relativistic players

## 4- Earth Moon Orbital Motion as a system consisted of Relativistic & Non-Relativistic Dimensions Cooperation.

4-1 Preface

4-2 Earth Moon orbital motion

4-3 Uranus is perpendicular on Earth Moon orbit

4-4 The Moon Orbital Inclination

### 4-1 Preface

Why the moon motion is an example of the cooperation between relativistic and non relativistic dimensions?

Let's summarize the idea in following:

- **The Moon Orbital Inclination Is Created As A Result Of The Relativistic Effects In The Moon Orbital Motion**
- We consider clearly that without the moon orbital inclination (5.1 degrees) the moon can't be seen at while it be behind Earth – means – the full moon will be disappeared forever – showing a great effect of this inclination on the moon motion knowledge
- That also will change the solar eclipse calendars – shows that – the relativistic effects can be useful for the geometrical structure

The important job for us here – is to discover how –relativistic and non-relativistic effects can be cooperated together to produce one geometrical system or one motion i.e.

While we deal with one motion –we deal with both relativistic and non-relativistic dimensions which are players in the same motion...

In the next point the moon orbital motion –

The relativistic effects are written in blue color but the mechanical motion is written red color

## 4-2 Earth Moon orbital motion

The moon motion defines 4 basic points which are:

- Perigee radius =363000 km = Earth Moon Distance to perigee point which is the most near point the moon can reach to Earth.
- Total solar eclipse radius =377000 km = Earth Moon Distance when the moon be in total solar eclipse most far point.
- Moon Orbital Distance =384000 km (A Registered Value)
- Apogee radius =406000 km = Earth Moon Distance to apogee point which is the most far point the moon can reach from Earth.

We have a clear and simple idea let's write it as clear as possible

- The moon moves 2.58 mkm per solar day equal to Earth motion distance (2.58mkm) per solar day – and by such way – the moon and Earth will not be separated from Each other during their motions course
- The Moon motion is similar to Earth Manner Motion – as Earth revolves around the sun and moves with straight trajectory inclines with less than 1 degree daily – similar to that the moon moves daily to keep his fellowship to the Earth during the motions course.
- **We know that there are relativistic effects in the solar system which cause different length contraction rates which are  $(1.0725- 7.1- 71 - (7.1)^2 - (71)^2)$  – we have discussed the relativistic effects in the solar system frequently before and provided many proves about them**
- **The length contraction effect with rate 1.0725 is effected on The Moon Daily Motion which is (2.58 mkm) to make it contracted and be = (2.41 mkm)**
- **The relativistic effects are found inevitably on the moon motion distance daily because by these relativistic effects the matter is created (moon diameter and mass) – that means we see the moon as a planet based on relativistic effects which cause also the contraction for his daily motion from the original value 2.58 mkm to be 2.41 mkm by length contraction rate =1.0725**
- Because the moon daily motion is contracted from 2.58 mkm to 2.41 mkm – that causes a difference in velocities between Earth and Moon Motions – so they don't move by equal velocities after the contraction effect.
- We may remember Einstein rock which he left to drop from the moving train- where Einstein have seen the rock dropped in straight trajectory of motion but the people on platform have seen the rock moves in parabola (why the motion trajectories are different? Because there's a difference in velocities between the moving train and the platform)

- Similar to that –there's a difference in velocities between Earth and Moon motions (this difference is found by the contraction effect on the moon motion distance daily)– where the moon motion should be in straight trajectory as similar to Earth motion trajectory to keep his fellowship to Earth – but the difference in velocities causes the moon motion to be seen in parabola form.
- Now the moon contracted motion distance =2.41 mkm and is done in parabola form – but based on that the moon must be separated from Earth during their motions course.
- **The Masses Gravity forces attack the moon to Earth and force him to move an additional distance =88000 km daily (The Moon Daily Displacement)**
- **The solar system geometrical mechanism uses 88000 km to produce double this value = 88000km x 2 which is the required distance (2.41 mkm+ 2 x 88000 km =2.58 mkm ) to keep the moon with Earth without separation in motion.**
- The system geometrical mechanism means the relationship between Uranus, Saturn and Earth (and Earth Moon accordingly) – this relationship which depends on the light motion for 1 second and based on it the whole solar system is created – we have discussed this relationship deeply in my previous paper (Research 1st Hypothesis Discussion (II)) (Paper References)
- The moon contracted motion (2.41 mkm) is done in parabola form – that means – the additional motion (88000 km daily) (moon daily displacement) **will be done also in parabola form** – which creates the elliptical form for the full cycle (27.3 days) (Moon Orbital Motion)
- Because the moon daily displacement (88000 km) is done in parabola form- for that reason – the moon motion will be seen in elliptical form
- Based on that – the final distance (2.41 mkm+ 2 x 88000 km =2.58 mkm) – this distance (2.58mkm) will be seen also in elliptical form – that's why the moon orbital circumference at apogee radius (r=0.406 mkm) =2.58 mkm = Earth Daily Motion.

The previous explanation answers clearly our old question

### **Why Earth Daily Motion Distance = The Moon Orbital Circumference At Apogee Radius = Moon Daily Motion Distance?**

Please review my papers

Moon Orbital Motion Analysis

<http://vixra.org/abs/1910.0080>

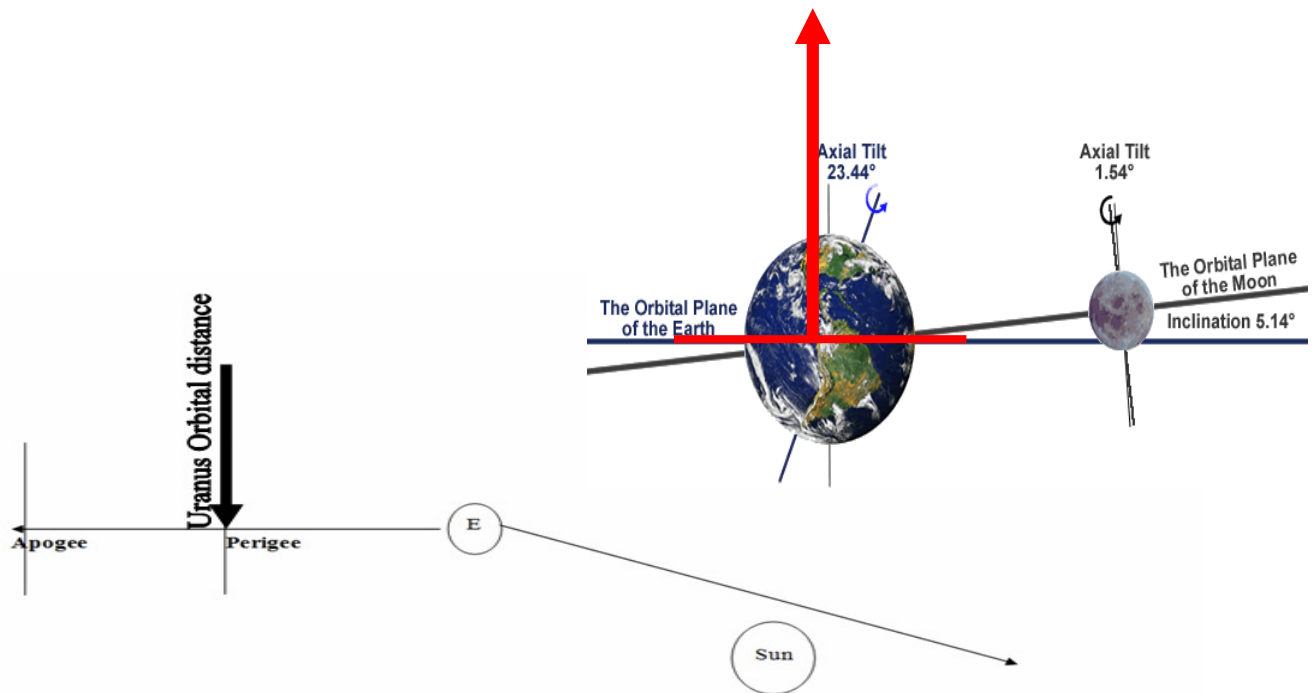
The Moon Indeed Moves by Gravity

<http://vixra.org/abs/1910.0001>

Why does Earth Moon Orbit regress?

<http://vixra.org/abs/1909.0064>

### 4-3 Uranus Is Perpendicular On Earth Moon Orbit



### Uranus is perpendicular on Earth Moon Orbit

In more clear words

### Uranus Axial Tilt Is Perpendicular On Earth Moon Axial Tilt

How that can be possible?

Uranus axial tilt = 97.8 degrees

Moon axial tilt = 6.7 degrees

97.8- 6.7 degrees = 91.1degrees (not perpendicular) but

As seen in Earth Figure

6.7 deg. (moon axial tilt) -5.16 deg. (moon orbital inclination) = 1.56 deg.

91.1 degrees -90 degrees = 1.1 degrees

The difference 1.56 degrees – 1.1 degrees = **0.46 degrees**

**This result is Mistaken – the correct result is 0.5 degrees**

It's the moon angular diameter =0.5 degrees – that means Uranus effects on Earth Moon Orbit and causes to create the moon axial tilt and diameter – and this creation is found because Uranus is perpendicular on the moon orbit

Perhaps this explanation be more logical if we can prove that the Moon orbital inclination is caused by Uranus Effect – let's try to do that following:

Please review

### Uranus Is Perpendicular on Earth Moon Orbit

[https://www.academia.edu/39616963/Uranus\\_Is\\_Perpendicular\\_on\\_Earth\\_Moon\\_Orbit](https://www.academia.edu/39616963/Uranus_Is_Perpendicular_on_Earth_Moon_Orbit)

#### 4-4 The Moon Orbital Inclination

##### I-Data

Moon orbital inclination = 5.1 degrees

(1)

97.8 degrees (Uranus axial tilt) = 19 x 5.14 degrees

(2)

23.6 degrees x 0.8 degrees (Uranus orbital inclination) = 19 degrees

(3)

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

(4)

97.8 degrees – 90 degrees = 7.8 degrees = 7 deg (Mercury orbital inclination) + 0.8 (Uranus orbital inclination)

##### II-Discussion

##### Equation No.1

97.8 degrees (Uranus axial tilt) = 19 x 5.14 degrees (Moon orbital inclination)

Based on this equation the moon orbital inclination is created – it's the direct result of Uranus axial tilt position as perpendicular on the moon orbit –

19 degrees = the moon orbit regress yearly 19 degrees

And this value is seen in the next equation

##### Equation No.2

**23.6 degrees x 0.8 degrees (Uranus orbital inclination) = 19 degrees**

23.6 degrees = outer planets orbital inclinations total ...and we know

17.4 degrees = inner planets orbital inclinations total

Also

23.6 degrees x 0.99 = 23.45 degrees (Earth Axial Tilt)

17.4 degrees x 0.99 = 17.2 degrees (Pluto orbital inclination)

(180/π) degr x 0.99 = 28.3 degrees (Neptune Axial Tilt)

##### Conclusion

5.1 degrees = Earth Moon orbital inclination – this value is created by Uranus Axial tilt effect on the moon orbit – that because – Uranus axial tilt is perpendicular on the Earth moon axial tilt –

But why Uranus axial tilt 97.8 degrees = relativistic effects?

Because Jupiter Uranus distance (2088 mkm) is passed by light known velocity (0.3mkm/sec) in 6939.75 seconds where

6939.75 seconds = 71 x 97.8 seconds and we know that the rate 71 is the length contraction effect found by  $v=0.9999 c$

### Equal Distances:

The distances equality reason can be explained also based on a similar idea  
Let's see the data in following

Why these distances are equal?

- **Saturn** Orbital Distance = **Saturn** Uranus Distance  
= Mercury Orbital Circumference  
= Saturn Uranus Distance  
= Pluto Eccentricity Distance  
= Neptune Pluto Distance  
= 0.5 Uranus Orbital distance  
= 2 Mercury Jupiter distance
  
- Neptune Orbital Distance = **Saturn** Pluto Distance

### More Data

- Mercury Jupiter Distance = Mars Orbital Distance  $\times \pi$
- Earth Neptune Distance = Mercury **Saturn** Distance  $\times \pi$
- Jupiter Uranus Distance = Venus Jupiter Distance  $\times \pi$
- Jupiter Pluto Distance = Uranus Neptune Distance  $\times \pi$
- Uranus Pluto Distance = Earth Orb. Circumference  $\times \pi$
- Neptune Orb. Distance = **Saturn** Orb. Distance  $\times \pi$
- Pluto Orbital Distance = Earth Orb. Circumference  $\times \pi$

### Conclusion

The solar system is a continuum

Why Saturn Orbital Distance = Saturn Uranus Distance? (II)

<http://vixra.org/abs/1910.0078>