

Is There A Contradiction Between SR And GR?

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Abstract

Let's summarize the contradiction point in following:

(1)

Lorentz Transformations tell us that – Particle 4 values are changing with high-velocity motion – these values are: **Particle Mass, Length, Distance And Time**

In our previous discussion- we have concluded that – we have to accept the particle length contraction and mass increasing as real phenomena which can't be illusion of measurements – we have reach to this conclusion based on 2 reasons – (1st) because of the empirical proves for these features (length contraction- mass increasing)- where we need to protect the physical experimental measurements credibility and (2nd) Because we don't want to make ourselves as **The Universe Reference Point**.

Shortly

Lorentz Transformations tell that **Particle Mass, Length, Distance And Time are changed by the same reason – i.e. they are dealt as similar to each other**

(2)

The special theory of relativity is built on Lorentz Transformations

But

In The General Theory of relativity Einstein tells us

"The existence of gravitational field is inseparably bound up with the existence of Space. On the other hand a part of Space may very well be imagined without electromagnetic field," ...

.....Since according to our present conceptions the elementary particles matter are also, in their essence, nothing else than condensations of the electromagnetic field....

Namely gravitational ether and electromagnetic field or – as they might also be called – **Space And Matter**

The Contradiction Point

**Lorentz Transformations deal with Space and Matter as equalBut
The General theory of relativity distinguishes between the space and matter**

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1- Introduction

Clearly the question concerns Lorentz Transformations basically – where these Equations provide some real strange idea-

Why Particle length and Mass are changed by particle high-velocity motion as similar to its time and distance values?

So Lorentz Transformations cause a contradiction with our vision which distinguishes between Matter and Space (as the general theory of relativity does)

But is this contradiction so deep– or just found as superficial one – from where this contradiction is started?

It's Einstein who explained it also, while he has analyzed why the ether idea is created in physics, and based on his analysis we can see that the contradiction is just found in our physics depth!

Shortly And Clearly

Particle Electromagnetic Properties Can't Predict Its Mechanical Properties

Simply there's no way to connect electromagnetism with gravity concepts

So, the dualism is found in the universe basic creation!

Somehow it's not true!

The dualism is found in our physics book only! Why? because the chemical interactions tell us that the universe is controlled by one unified law

that explains, Why Lorentz Transformations deal with the 4 values as equal although we don't understand The Lorentz Transformations vision – because – for example- why Particle length is contracted? Particle mass is increasing because more energy is provided to the particle in its acceleration, which means, particle material should be increased leading to increase the length not to contract it?! also we don't know why just particle mass and length are changed by high velocity motion – why not the density for example? Also why we have no an equation express the relationship between any particle length and its mass based on these changes occurred by high velocity motion! many unanswered questions concern Lorentz transformations still are found...

My basic research interests for Planet data analysis – I interest to know how the planet gets its data – for example why the moon diameter =3475 km?

I have noticed a very strange result found by data analysis which is:

Planet Data deals With Matter And Space As Equal To Each Other

This paper aims basically to provide the planets data which show an equal treatment for matter and space – **Simply Planets Data Rules Doesn't Distinguish Between Matter And Space** – on the contrary – **They Deal Both As Equal**- here I provide more support for Lorentz Transformations Vision against GR Basic Concepts.

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

Why Don't We Understand The Solar System Geometry? <http://vixra.org/abs/1911.0018>

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3- Total Solar Eclipse Analysis

3-1 Why We See The Sun Disc = The Moon Disc?

3-2 The Moon Orbit Analysis

3-3 Mercury Motion during 5040 seconds

3-4 Planets Orbital and internal distances

3-5 Earth, Moon and Pluto Motions

3-1 Why We See The Sun Disc = The Moon Disc?

It's our old friend – and we know its answer ...because

$$\frac{\text{The Sun Diameter}}{\text{The Moon Diameter}} = \frac{\text{Earth Orbital Distance}}{\text{Earth Moon Distance}} = 400$$

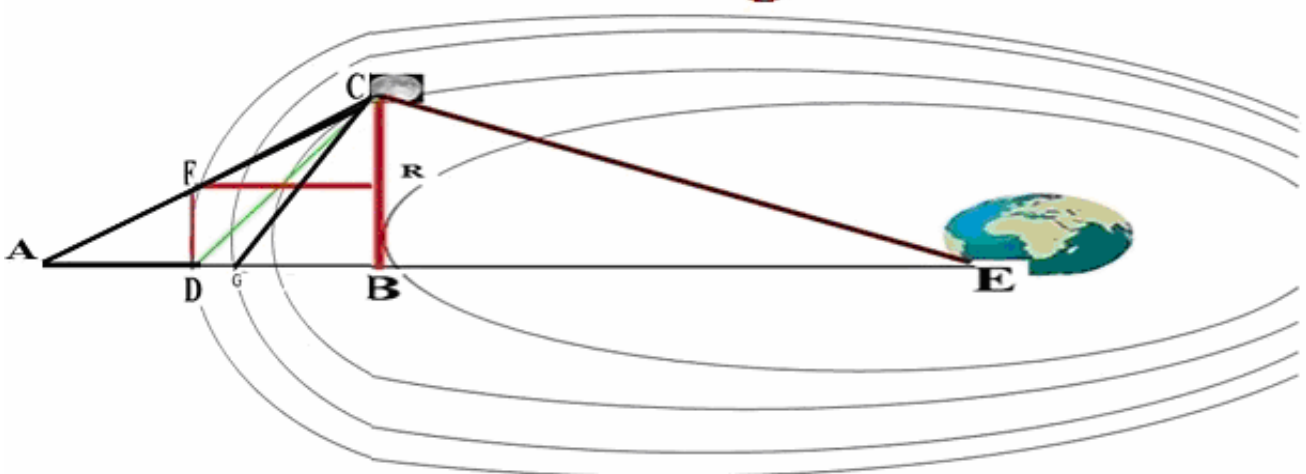
Why the diameters rate = the distances rate? The answer "Pure Coincidence"

But

Saturn Circumference = 378000 km = Earth Moon Distance while the moon is in Total Solar Eclipse Radius – this also must be Pure Coincidence...

So let's take a deep look on the Earth Moon Distance

Moon Orbit Triangle



EB = 363000 km = Perigee radius (perigee is the nearest point, the moon can reach)

EC = 378000 km = Earth Moon Distance when the moon in total solar eclipse point

EG = 384000 km = The Moon Orbital Distance (registered in NASA Planetary sheet)

ED = 406000 km = Apogee radius (Apogee is the most far point, the moon can reach)

AC = 120536 km = **Saturn Diameter** **EC** = 378000 km = **Saturn Circumference**

AE = 449378.3 km = **Jupiter Circumference**

AB = BC = 86400 km

Note Please

(1)

2 Jupiter Circumferences - 2 Saturn Circumferences = 1 Jupiter Diameter (error 1.3%)

(2)

(Jupiter Diameter)² + (Saturn Diameter)² = (0.5 Saturn Circumference)² (1.2%)

(3)

2 Jupiter Diameters + 1 Saturn Diameter = Solar Planets Diameters Total

(4)

Saturn Diameter – Jupiter Radius = Neptune Diameter x 0.99

(No Error)

3-2 The Moon Orbit Analysis

I- Data

Group No. 1

- 1- **Earth Moon Distance (Perigee Radius) = 363000 km = The Outer Planets Diameters Total** (error 1%)
- 2- **Earth Moon Distance (Apogee Radius) = 406000 km = The Solar Planets Diameters Total**
- 3- **The Distance Between Perigee And Apogee Points = The Inner Planets Diameters Total = Earth Circumference**

Group No. 2

In the previous figure (Moon Orbit Triangle)

Let's review the data ... we know **AB= BC= 86000 km, and BR=CR =43000 km**

$$(EB)^2 + (86000 \text{ km})^2 = (EC)^2 \quad (\text{error } 1\%)$$

$$(EC)^2 + (86000 \text{ km})^2 = (EG)^2 \quad (\text{error } 0.5\%)$$

$$(EG)^2 + (86000 \text{ km})^2 = (S)^2 \quad (\text{where } S= 394000 \text{ km- unknown point})$$

$$(S)^2 + (86000 \text{ km})^2 = (ED)^2 \quad (\text{error } 0.7\%)$$

More Data

$$BG = 21000 \text{ km}$$

$$DG = 22000 \text{ km}$$

$$CG = 88500 \text{ km}$$

$$CD = 96150 \text{ km}$$

Triangle Angles

$$E \text{ Angle} = 13.33 \text{ degrees}$$

$$C = 121.7 \text{ degrees}$$

$$A \text{ Angle} = 45 \text{ degrees (ABC is an Equilateral triangle)}$$

$$ECB \text{ Angle} = 76.66 \text{ degrees}$$

$$BCA \text{ Angle} = 45 \text{ degrees}$$

$$BDC \text{ Angle} = 63.4 \text{ degrees}$$

$$ADC = 116.6 \text{ degrees}$$

$$DCB \text{ Angle} = 26.6 \text{ degrees}$$

$$GCB = 13.7 \text{ degrees}$$

Group No. 3

Table No. 1			Why Earth Circumference = 40080 km?		
<i>If Earth diameter = 12756 km, is considered to be = 1</i>					
Earth Circumference = 40080 km, will be just = Π So..... The Following Vales Are Correct					Error
❖	Earth Circumference	=	Π	-	-
❖	Solar Inner Planets Diameters Total	=	Π	-	-
❖	Solar Outer Planets Diameters Total	=	9Π	-	-
❖	Moon Orbit Radius (At Perigee Point)	=	9Π	-	-
❖	All Solar Planets Diameters Total	=	10Π	1%	1%
❖	Moon Orbit Radius (At Apogee Point)	=	10Π	1.2%	1.2%
❖	2 Jupiter Diameter + Saturn Diameter	=	10Π	-	-
❖	Moon Orbit Radius (At Total Solar eclipse Point)	=	9.5Π	-	-
❖	Saturn Circumference	=	9.5Π	-	-

II- Discussion

The previous data is analyzed in long time – about each part of it I have asked how this data is created and all answers were simply "Pure Coincidences"

I put them together because – I want to show that –
There's Some Geometrical Force Behind

The data can't be created as pure coincidences at any case – but we may not understand this data simply because the used geometry behind is beyond our knowledge- or

In more clear words

We have a wrong vision in our distinguish between Matter And Space

Lorentz Transformations here supports the Data direction clearly and shows that – the data is consistent with Lorentz vision

But how to understand the equality in treatment between the matter and space?

In Moon Orbit Triangle – The Planets Diameters And Circumferences Are Used As Distances Clearly –

Simply the moon orbit is built depending on Jupiter and Saturn Diameters and Circumferences –

We have this hard question because we have ignored already our old homework which was to solve the question "How the matter is created?"

Because we don't know how the matter is created, we have a wrong vision which distinguishes between Matter and Space!

Simply

Nothing is clear

Matter & Space should be distinguished from each other! – But neither Lorentz Transformations nor the moon orbit data support us in this vision–

Please review

Earth Moon Orbit Triangle Analysis (Revised)

<http://vixra.org/abs/1907.0627>

3-3 Mercury Motion during 5040 seconds

Mercury Day =176 solar days (minus only 5040 seconds)

During 5040 seconds

- Mercury moves a distance = 2 **Saturn Diameters** (error 1%)
- Mars moves a distance = **Saturn Diameter**
- Saturn moves a distance = Neptune Diameter (error 1.3%)
- Pluto moves a distance = Pluto Diameter x π^2

I wish to explain my idea as clear as possible, **Saturn Diameter** is repeated frequently!

Just by looking at all previous data we will see Saturn Diameter and Circumference are repeated frequently! Why?

Around 10 equations show Saturn Diameter & Circumference, based on that we conclude "**Saturn Is One Of The Solar System Basic Geometrical Columns**"

Let's try to find an answer **Why Saturn Is Used Frequently As Such?**

(I)

12104 km = Venus Diameter

120536 km (**Saturn Diameter**) = Venus Diameter x π^2

(II)

(Venus Circumference)² = 1433.5 mkm = Saturn orbital distance (error 1%)

(III)

1433.5 mkm = Saturn Orbital Distance =2 Mercury Jupiter Distance
 = Saturn Uranus Distance = (1/ π) Neptune Orbital Distance
 = Mars Orbital Circumference
 = Pluto Neptune Distance
 = Pluto eccentricity distance

Venus Diameter Table

Table No. 2				
Constant	* Π^n		The distance	Error
(Venus diameter) ²	* Π^0		149.6 mkm Earth orbital distance	2%
	* Π		455.8 m km Mars Orbital diameter	-
	* Π^2		1433.5 mkm Saturn Orbital distance	-
	* Π^2	/2	720.3 mkm Mercury Jupiter distance	-
	* Π^2	*2	Uranus orbital distance	-
	* Π^2	*4	Pluto orbital distance	1.4%
	* Π^3		Neptune orbital distance	1.1%
	* Π^{-1}	*2	Earth Mercury distance	2%
	* Π^{-2}	*4	Mercury orbital distance	2.5%
	* Π^{-2}	*8	Venus Mars distance	-

Note please : (-) means the error less than 1%

(Gerges Francis Equation for Venus)

$$D = AR_v^2 \Pi^n$$

Where D= the planet distance to the sun or to another planet A= constant R_v = Venus diameter

More Data

500 seconds x 4.7 km/sec (Pluto velocity) = 2350 (Pluto diameter) (1.6%)

500 seconds x 6.8 km/sec (Neptune velocity) = 3475 (Moon diameter) (2.2%)

500 seconds x 9.7 km/sec (Saturn velocity) = 4879 km (Mercury diameter) (0.6%)

500 seconds x 24.1 km/sec (Mars velocity) = 12104 km (Venus diameter) (0.6%)

Discussion

Saturn Motion during 500 seconds produces a distance = Mercury diameter!

But

Mercury motion during 5040 seconds produces a distance = 2 Saturn diameters!

We need to consider the previous data to analyze as deep as possible – we clearly – don't understand how this data is created – but we can conclude easily that this data is created for geometrical reasons – they clearly depends on each other – telling that – there's some geometrical mechanism behind which use all this data to produce some specific result-

Simply there a reason to produce 2 Saturn diameters from Mercury Motion during 5040 seconds – I can't see this reason yet- but there's a geometrical reason surely

What I try to show is that

The data deal with distances as planets diameters and circumferences- the distinguish between Matter and Space is not so clear as we think – The data gives us no room for doubt

I wish we see the connections between the data groups – these connections are terminals only which connect also more data – for example – we have see 7 distances = 1433.5 mkm = Saturn orbital distance – we don't know why these distances are equal? But this data is just an entrance for tenths of equal distances which – still- we don't know why they are equal –

Let's see these distances in following

3-4 Planets Orbital And Internal Distances

I- Data (Group No. 1)

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

- Jupiter Pluto Distance = Uranus Neptune Circumference
- Earth Neptune Distance = Mercury Saturn Circumference (Error 0.5%)
- Jupiter Uranus Distance = Jupiter Saturn Circumference (Error 1.5%)

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 $\times \pi$

Why These Distances Are Equal?

Group No. 2

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

Why These Distances Are Not Equal?

II- Discussion

The previous data is clear and we have seen it before – so let's summarize the idea:

The solar planets have 45 orbital & internal distances

30 of them are equal each other (Data Group no.1)

And

18 of them are rated to each other by the rate 1.0725 (Data Group no.2)

Let's ask

Why These Distances (Groups No.1) Are Equal?

And

Why The Others (Group No.2) Aren't?

Because

These All Distances Are Light Beams Reflected To Ach Other

But

The distances in Group no. 2 –

These distances are 2 types of distances –half of them pass through another frame – because we deal with light motions – and because of their passing through another frame they suffered from length contraction effect with rate 1.0725

The distances rest half didn't pass through this frame – and they didn't suffer from any length contraction effect –

That produces the rate 1.0725 which we see in the previous data, this rate is found by relativistic effects... How?

Velocity $v=0.99c$ will produce a length contraction effect with rate $=7.1$

So

$$\frac{7.1}{100} + 1 = 1.0725$$

The rate 1.0725 depends on the high velocity $v=0.99c$

But the rate isn't used directly but used by some complex geometrical process..

So the previous distances tells that –

The Planets Motions Are Equivalent To Light Motions

And that's the claim which I try to prove

Let's see the rate 1.0725 in one new equation to be sure that this rate is found as a general effect in the solar group and not specific for any planet...

Equation No. (2)

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

II-Discussion

How to explain Equation No. (2)? Let's try to do that in following:

(I claim that the rate 1.0725 is found As Length Contraction Effect Rate)

- Neptune Axial Tilt 28.3 degrees is the master value in this equation because Neptune reflected Jupiter energy toward the solar inner planets
- Neptune Axial Tilt 28.3 degrees will be contracted with the rate 1.0725 to produce 26.7 degrees (Saturn Axial Tilt) (and that may explain why Neptune orbital distance = Saturn Orbital Distance x π)

Then

- Saturn Axial Tilt 26.7 degrees will be contracted by the same rate (1.0725) to produce 25.2 degrees (Mars Axial Tilt) (that may explain Why Mars Orbital Circumference = Saturn Orbital Distance=1433.5 mkm)

Then

- Mars Axial Tilt 25.2 degrees will be contracted (1.0725) to produce 23.4 degrees (Earth Axial Tilt) (that explain Why Earth Orbital Distance = Earth Mars Distance x Mars Orbital Inclination)

For Relativistic Effects Discussion Please Review

A Summary Of My Research -Part 3- (Relativistic Effects Discussion)

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

A Conclusion

The Rate 1.0725 in the solar system geometry is found as a general effect on the solar system geometry – it's not related to any specific planet, instead, It's a general rate found effective on the solar system data generally

My Explanation is that – this rate 1.0725 is found as a length contraction effect – but if this explanation is incorrect- the data still needs explanation – because we have almost 50% of all solar planets distances are rated by this same rate

3-5 Earth, Moon and Pluto Motions

Data

- Earth moves during its day period (24 hours) a distance =2.58 mkm
- Earth Moon moves during its day period (708.7 hours) a distance =2.58 mkm
- Pluto moves during its day period (153.3 hours) a distance =2.58 mkm

That makes

Pluto Velocity per Solar Day = 0.406 million km = Earth Daily velocity / (2π)

Where

0.406 mkm = Earth Moon Distance at Apogee Point

0.406 mkm = The Solar Planets Diameters Total

That means

Pluto Motion Per Solar Day produces a distance = The Solar Planets Diameters Total

Again I try to show that – the solar system rules deal with Matter and Space as Equal

Why Pluto Motion per Solar Day = The Solar Planets Diameter Total?

To answer this question we have to review many the basic 5 hypotheses:

Hypothesis No.1: Solar System is One building (or one machine) and each planet is a part of this same building.

Hypothesis No.2: Solar Planets move together one unified motion as the train carriages move together (i.e. No Planet moves individually or independently from other planets motions)

Hypothesis No.3: Planet motion for 1 solar day depends on energy of light motion for 1 second period

Hypothesis No.4: Solar System Unified Motion depends On Solar Day Period

Hypothesis No.5: Matter Creation depends on solar day period of time

Please review

My Research Hypotheses

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

Research 1st Hypothesis Discussion

<http://vixra.org/abs/1909.0562>

More Data

How can be Pluto motion distance per solar day = the solar planets diameters total?

This idea depends on the 3rd hypothesis -

Planet motion for 1 solar day depends on light motion for 1 second

Later I added one more conclusion which is:

1 equation controls all planets data!

Let's try to explain that –

Light travels for 1 second (1.16 mkm/sec) causes Pluto motion for 1 solar day

(I suppose there's a light travels with 1.16 mkm/sec)

So

Pluto motion distance 0.406 mkm depends on light motion distance 1.16 mkm

One Equation?!!

$$1.16 \text{ mkm} = 0.406 \text{ mkm} + 0.377 \text{ mkm} \times 2$$

$$Z = 1 y + 2 x$$

This is the equation which controls all planets data

1.16 mkm = light motion for 1 second

0.406 mkm = Pluto Motion for 1 Solar Day

0.377 mkm = **Saturn Circumference**

Please Note the value (**2 x 0.377 mkm**)

Where Saturn diameter and Circumference in this paper data are used frequently with this same value (2)

Which leads us to 2 conclusions

Conclusions:

(1st) There's a geometrical hand behind the solar planets data creation – nothing is created by any random process

(2nd) The solar system data deals with the matter and space as similar to each other (supporting Lorentz Vision)

Please review

Matter Creation Principle (Part V)

<http://vixra.org/abs/1908.0367>

Matter Creation Principle

<http://vixra.org/abs/1908.0196>

4- Is There A Relationship Between Planet Diameter And Orbital Distance?

4-1 Space And Matter Are Created Of The Same Stuff

4-2 Pluto and Earth Moon Diameters

4-3 How Planets diameters are created?

4-1 Space And Matter Are Created Of The Same Stuff

I- Data

Table No. 3	Distance = Diameter x (71) ²
(1) 720.7 mkm (Mercury Jupiter Distance)	= (71) ² x Jupiter Diameter
(2) 1205 mkm (Mars Saturn Distance)	= (71) ² x Saturn Diameter x 2
(3) 108.2 mkm (Venus Orbital Distance)	= (71) ² x Venus Diameter x 2
(4) 119.7 mkm (Venus Mars Distance)	= (71) ² x Neptune Circumference
(5) 1622.5 mkm (Uranus Neptune Distance)	= (71) ² x Uranus Circumference x 2
(6) 778.6 mkm (Jupiter Orbital Distance)	= (71) ² x Neptune Circumference
(7) 78.3 mkm (Earth Mars Distance)	= (71) ² x Mercury Circumference
(8) 101 mkm (Mercury Venus orbital diameter)	= (71) ² x (Earth Circumference)/2
(9) (Earth moon diameter) ²	=(71) ² x Pluto Diameter

II-Discussion

(71)² = 5041 where Mercury Day needs 5040 seconds to be 176 solar days

71 is the contraction rate produced by velocity $v=0.9999c$

But Earth actual velocity =0.0001c (where c = light velocity 0.3 mkm/ec)

I claim there are relativistic effects in the solar system – it's an old discussion – Here we need to explain how the data is created..?

If we take a deep look at the previous table – we'll find that there's no possibility for the claim "pure coincidences" – the data is directed geometrically and so strongly- The main point is that – we don't know the geometrical rules on which this data is created – may our mistake locates in our consideration that the matter & space are distinguished from Each Other –

Note please

Planets order shows this relationship – please review

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

Planet diameter and orbital distance equation – please review

Gerges Equations For Solar Group Geometry <http://vixra.org/abs/1906.0564>

4-2 Pluto and Earth Moon Diameters

I- Data

(1)

Earth Moon Circumference $10921 \text{ km} \times 27.3 \text{ days} = 300000 \text{ km}$

(2)

Earth Moon Circumference $10921 \text{ km} \times 86400 \text{ seconds} = 940 \text{ mkm}$

(3)

The outer planets diameters total (366500 km) = $105 \times$ Earth moon diameter (3475 km)

(4)

The outer planets diameters total (366500 km) = $153.3 \times$ Pluto Diameter

But

(A)

Pluto Rotation Period = 153.3 hours

(B)

Earth Moon rotation Period = $105 \text{ hours} \times 2\pi = 655.2 \text{ hours}$

To see this data in more light please notice

Pluto rotation period (153.3 hours) = $2\pi \times (24 \text{ hours} = \text{a solar day})$

No available geometry can tell us what's happening here – but what's happening is happening based on Geometrical Rules –

I try to show that – our Geometry book – still needs additions which we don't know and we need necessary to explain how the solar planets data is created

Discussion

Equation No. 1 – we know perfectly –

Earth Moon Circumference $10921 \text{ km} \times 27.3 \text{ days} = 300000 \text{ km}$

It tells – if the moon rotates around its axis once daily – so during the moon orbital period will pass a distance = light motion for 1 second (light velocity 0.3 mkm/sec)

This idea is not so strange

$300000 \text{ km} = \text{Earth Diameter } 12756 \text{ km} \times 23.45$

(And We Know That $23.45 \text{ Degrees} = \text{Earth Axial Tilt}$)

Equation No. 2

Earth Moon Circumference $10921 \text{ km} \times 86400 \text{ seconds} = 940 \text{ mkm}$ (Earth orb. Circum)

It tells

If Earth revolves around the sun a complete revolution around the sun in one solar day only – in this case the moon circumference will be = a distance of its motion for 1 second - please notice that – 1 second is used 2 times in both equations – the moon indeed is created for time definition!

4-3 How Planets Diameters Are Created?

The Big bang theory is just Mystery – which any one can easily disprove

Data

Table No.4	No Error More Than 1.5%
Relationship	Rate
Earth Diameter / Venus Diameter =	A
= Mars Diameter / Earth Radius	
Mars Diameter / Venus Radius =	A2
= Venus Diameter / Moon Circumference=	
= Moon Radius * Π / Mercury Diameter =	
= Pluto Circumference / Mars Diameter=	
=Uranus Circumference / Jupiter Diameter =	
= lunar apogee radius /lunar perigee radius =	
Pluto Circumference / Earth Radius =	A3
=Mercury Circumference / Earth Diameter =	
= Earth Diameter / Moon Circumference=	
= Uranus Radius / Mars Circumference =	
= Jupiter Diameter / Saturn Diameter=	
= Saturn diameter / Uranus Diameter=	
Venus Radius / Mercury Diameter=	A4
= Uranus Diameter / Earth Circumference=	
Uranus Diameter / Venus Circumference=	A5
Jupiter Radius / Uranus Diameter=	A6
= Mercury Diameter / Moon Diameter	
=Mars Diameter / Mercury Diameter=	

Discussion

By explosion the random process will create the planets diameters relative to each other as this table show – is it possible?!

NOT – It's impossible clearly

So the total solar eclipse which is found because we see the sun disc = the moon disc was not the only miracle in the solar system – the sun diameter is created relative to the moon diameter! This miracles repeated simply with all planets diameters as we see

The creation force of the solar planets is a geometrical force and created each planet based on geometrical rule and for geometrical job –

More Data

Equation No. 1

$$\frac{\text{Jupiter Radius}}{\text{Mercury Diameter}} = \frac{\text{Uranus Diameter}}{\text{Moon Diameter}} = \frac{(2 \text{ Saturn Circumferences})}{\text{Uranus Diameter}} = \frac{\text{Venus Mass}}{\text{Mercury Mass}} = \frac{\text{Uranus Mass}}{\text{Earth Mass}} = \frac{4.37}{0.3}$$

Equation No. 2

$$\frac{\text{Saturn velocity}}{\text{Uranus velocity}} = \frac{\text{Planets Masses Total}}{\text{Jupiter Mass}} = \frac{\text{Planets diameters total}}{2 \times \text{Jupiter diameter}} = \frac{\text{Jupiter Radius}}{\text{Uranus Diameter}} = \frac{\text{Mercury Diameter}}{\text{Moon Diameter}}$$

Discussion

Where

4.37 mkm = The Sun Circumference

0.3 mkm = A light motion for 1 second (light known velocity 0.3mkm/sec)

This term (4.37/0.3) tells that – The Sun Circumference Is Created Based On Light Motion For 1 Second –

The previous 2 equations add more data to prove that – the planets diameters are created relative to each – nothing is created independently

We may remember these equations explanations

We know that – light motion for 1 second causes planet motion for 1 solar day

So we have light motion for 1 second ...that satisfies the hypothesis (research 3rd hypothesis) – So the equations can be explained by my theory

But ... It's not very clear.....**Why?**

Because in both Equations **Jupiter Uses Its Radius And Not Diameter!**

Let's review it again..!

Light motion for 1 second causes planets motion for 1 solar day – but – 1 solar day of planet motion is NOT enough to create the solar system data – we need motion for 2 solar days - that's why Jupiter uses its radius and not diameter

This same idea can be concluded easily from another equation also

Equation No. 3

$$\frac{\text{The Sun Diameter}}{\text{The Moon Diameter}} = \frac{\text{Earth orbital distance}}{\text{Earth Moon distance}} = \frac{\text{Earth daily motion}}{\text{Earth Radius}}$$

Also in this equation Earth uses its radius and not diameter – that tells us – we should use the double value to perform the required result!

For detailed discussion please review

Why Saturn Orbital Distance = Saturn Uranus Distance?

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

Appendix No. 1 "Lorentz Transformations Analysis"

Is Lorentz Length Contraction Is Real Phenomenon or Illusion of Measurements?

$$\Delta l = \Delta l_0 \sqrt{1 - \left(\frac{v}{c}\right)^2}$$

The Equation is clear before our eyes from more than 100 years and still we don't understand it ?!

So 2 visions are found in fighting...

1st Vision tells it's A Real Phenomenon

2nd Vision tells it's An Illusion Of Measurements...

Let's provide one example only for each vision and then we should analyze the contradiction reason behind

(1st Reference) -Mechanics -Berkely Physics Course Volume 1

Page No. 330-331 (last Paragraph)

This is the famous Lorentz-Fitzgerald contraction of a rod moving parallel to its length with respect to the observer. One may worry at this point whether the rod has "actually contracted." **Of Course Nothing Physical has happened To The Rod**, but the process of measurement in the moving frame has given a different result. For a discussion of the figures of rapidly moving objects as photographed with a camera, see the excellent review by Weisskopf. It has been shown, for example, by calculation of trajectories that a moving sphere will photograph as a sphere and not as an ellipsoid.

(2nd Reference)

University of Nebraska - Lincoln

An Introduction to the Special Theory of Relativity- Robert Katz- **Page No. 36**

Is the moving rod really contracted in its direction of motion? Is time really dilated? These questions depend on what is meant by really. In physics what is real is identical with what is measured.

There is no way to assign properties to a rod or to a clock or to an electron except through measurement. **In This Sense The Phenomena We Have Discussed As Time Dilation And The Lorentz Contraction Are Real.**

(3rd Reference)

Costas Christodoulides

The Special Theory of Relativity Foundations, Theory, Verification, Applications

Page 70 – **Last Paragraph**

It Must Be Understood That Nothing Happens To The Rod Due To Its Motion Which Causes Its Contraction. There is no change in its atomic structure, for example. The difference in the results of the measurements of the length in the two frames of reference may be understood if we examine the moments in time at which the measurements were made, as these are observed in the two frames of reference. In frame S', the measurements at the points x₀ A and x₀ B were both performed at time t₀.

The times at which the measurements were seen to be performed in frame S, are, respectively,

(4th Reference)

**The Special Theory Of Relativity- Lecture Notes prepared by J D Cresser
Department of Physics- Macquarie University-
Page 22**

This phenomenon is known as the Lorentz-Fitzgerald contraction. It is not the consequence of some force 'squeezing' the rod, **But It Is A Real Physical Phenomenon With Observable Physical Effects.** Note however that someone who actually looks at this rod as it passes by will not see a shorter rod. If the time that is required for the light from each point on the rod to reach the observer's eye is taken into account, the overall effect is that of making the rod appear as if it is rotated in space

(5th Reference)

Albert Einstein Book

Relativity: the special and the general theory

Translated by robert w. lawson, University of Sheffield Introduced by nigel calder

Page No. 49

If we now assume that the relative distances between the electrical masses constituting the electron remain unchanged during the motion of the electron (rigid connection in the sense of classical mechanics), we arrive at a law of motion of the electron which does not agree with experience. Guided by purely formal points of view, H. A. Lorentz was the first to introduce the hypothesis that the form of the electron experiences a contraction in the direction of motion in consequence of that motion, the contracted length being proportional to the expression

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

This hypothesis, which is not justifiable by any electrodynamical facts, supplies us then with that particular law of motion **Which has Been Confirmed With Great Precision In Recent Years.**

Discussion

Shortly

"Is Lorentz Length Contraction a real phenomenon or illusion of Measurements?"

We have 2 directions to choose from:

(1st) to accept the idea that –Particle own nature doesn't change and the contracted length is found as illusion of measurements

Or

(2nd) to accept the idea that –Particle own nature changes with high velocity motion.

I choose the 2nd choice- **Why?**

Because

(I) the experimental measurements prove this contraction – and in physics what's measure = What's real (by this rule we protect the physics experimental methods credibility)

(II) the 1st choice tells us that – The particle own nature is defined correctly when no difference in motions velocities found between me and this particle – that means – I'm **The Universe Reference Point** – and this is similar to a person looks at a mirror Specifically for the previous reason we should refuse both next statements "**Particle Own Nature doesn't Change**" and "**The Proper Length L_0 Never Change**"

Lorentz equations for particle length and mass provide the sufficient proof for this fact -

Particle Length And Mass are changing with high velocity motion – which shows clearly that Particle data is created relative to this particle motion.

The previous conclusions are consistent clearly with Lorentz vision based on which Lorentz transformations were created...

The basic difficulty here is found with an old unanswered question let's refer to it: How the matter is created? How does any Particle define its data?

Conclusion:

Lorentz tells us that, Particle own nature and data must be defined relative to this particle motion

So let's try to discover -

Why famous textbooks authors claim that this contraction is illusion of measurements?!

For reasons to be discussed now.

Lorentz transformations were created – in that time - based on electrodynamics studies, theories and experiments –

Many studied in that time led to one clear conclusion which is

"The Matter Must Be Created Of Electromagnetic Waves Or At Least The Matter Creation Depends On Electromagnetic Waves"

The fighting to give a birth for the Special theory of Relativity was at apex – during this period – because the whole science of electromagnetic and electrodynamics was in serious risk because of Michelson and Morly Experiment –

So serious tries were used to create a solution for the clear contradiction between the theory and empirical proves –

Then after the serious fighting, the Special Theory of relativity is born to a piece of Gold to answer the main hard questions and save the whole science....

Now we return to the basic problem again...

How the matter is created? How does any particle define its data??

Planet motion is interpreted basically based on Newton Gravitation Theory –where the gravity forces depends on the Sun And Planet Masses

i.e. Planet moves based on its mass

Or

Planet moves because of its masses relative to the sun mass

This is the main rule – on which all solar planets motions interpretation

So the motion is a result of the mass

Conclusion

Planet Motion is a result of Planet Data....

This conclusion simply contradicts Lorentz Transformations

Conclusion:

Lorentz tells us that, Particle own nature and data must be defined relative to this particle motion

So what's the reason and what's the result? Planet data is a result of its motion or planet motion is a result of its mass?

I try to show that – there's a serious reason pushed the famous authors to claim that the contraction is an illusion of measurements – they have to do that – because if Particle real length is contracted by its high velocity motion so this particle data should be considered as a result of Particle motion – and based on that – we will have no reason for Planet motion – because Planet Mass itself will be considered as a result of Planet motion

I have tried to show that – the contradiction isn't created for some simple reason – on the contrary – the contradiction is found deeply in the physics basics!

The solution is found when we answer "**How The Matter Is Created?**"

This paper tries to analyze Lorentz Length Contraction as deep as possible

Please review

Does Particle Data Depend on Its Motion? (Lorentz Transformations Analysis)

<http://vixra.org/abs/1912.0134>

Is There A Contradiction In The Physics Book? <http://vixra.org/abs/1911.0470>