Mercury Motion During Its Day = Mercury Jupiter Distance. (Why?)

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Abstract

- Mercury moves during its day period (175.94 solar days) a distance (720.7 mkm)=
 = Mercury Jupiter Distance
- Venus moves during its orbital period (224.7 solar days) a distance (670 mkm) =
 = Venus Jupiter Distance (error 1.5%)
- Earth moves during its orbital period (365.25 solar days) a distance = Earth Jupiter Distance (when Earth & Jupiter be at different sides from the sun 778.6 mkm +149.6 mkm = 929 mkm) (error 1%)

Why do The 3 Planets Move During Their Orbital Periods (Or Day Period) Distances = Their Distances To The Jupiter?!

My Answer Which I Try To Prove In This Paper.

- **There's A Light Beam Its Velocity =1.16 Mkm/Sec**
- This light beam (1.16 mkm/sec) creates the orbital and internal distances between all solar planets and **Specially** between (Jupiter, Mercury, Venus & Earth)
- The inner 3 planets (Mercury – Venus – Earth) are followers to Jupiter and they consist together **one unified motion** – that means- they are 3 carriages in one train and they move complementary motions to each other
- Jupiter is the guide and head of the 3 inner planets (Mercury, Venus & Earth) – Jupiter works as a reference for them (Specifically, Jupiter is the source of energy for these 3 inner planets).

Jupiter & The 3 Planets Data Prove, There's A Light Velocity =1.16mkm/Sec

References

There's a Light Beam travels with 1.16 mkm/s (III) https://vixra.org/abs/2002.0338
There's a Light Beam travels with 1.16 mkm/s (II) https://vixra.org/abs/2002.0316

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1- Introduction

The previous abstract tells us 2 information:

(**1st**) The light velocity 1.16 mkm/sec can be discovered by any planets data analysis

(**2nd**) The distance between any 2 planets are defined by **A Third Player** and not by any of both!

We need to test this information! Let's try with (1st) – to do let's answer the question:

Why Mercury Day Period = 4222.6 hours?

- **A light beam travels with velocity =1.16 mkm/sec, passes a distance = Jupiter orbital circumference (4900 mkm) during a period =4224 seconds**
- The period **4224** seconds is transported from the light motion at Jupiter orbital circumference to Mercury motion in a form **4224 hours**
- This transportation of period is done **because Mercury receive its energy from Jupiter** –as we have discussed before-
- Mercury Day should be =4224 h. because of **Jupiter effect on Mercury motion.**

Why Mercury day = 4222.6 hours and Not 4224 hours?!

- Another Planet effected on Mercury motion and caused this change ! **Pluto**

How to explain that?

- We know Mercury Energy =86400 mkm – which is sent from Jupiter
- 86400 mkm = 17.2 x **5040** (where 17.2 degrees = Pluto Orbital Inclination)
- That causes Mercury Day Period to be decreased with **5040** seconds

Are there any proof?

- Light with velocity 1.16 mkm/sec travels during 5040 seconds a distance= 5846 mkm (=**Mercury Pluto Distance**) …………..But
- Mercury moves during 346.6 days (nodal year) a distance =1433.5 mkm (=Saturn orbital distance) but Mercury moves during 1433.5 days a distance = 5846 mkm (**Mercury Pluto Distance**) - Mercury motion is a series follows the light motion.

Comment

- The previous data is one example of many other strong proves for the claim, where Mercury Day Period is defined by Jupiter effect – and we know Mercury moves during Mercury Day period a distance = Mercury Jupiter Distance – this data mechanism explanation will prove clearly that there's **A Light Velocity =1.16 mkm/sec** behind the planets geometrical structure.
- **Shortly – These planets orbital and internal Distances Can't Be Created If There's No Light Velocity =1.16 Mkm/Sec created Them.**

i.e.

- The previous data does 2 tasks (1st) proves the velocity 1.16 mkm/ sec existence (2nd) provide a door for a deep vision to answer how the planets data is created.

Paper Basic Points

3- Mercury, Venus and Earth Motions

4- Planet Matter & Motion

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2- Methodology

In my research I use the planets data analysis as **A Research Method**
to explain how this method works, we may discuss 2 questions in following:

(1st Question)

How The Planet Data Is Created? For example, Saturn Diameter =120536 km – Why? how this diameter is created by this value? If Saturn diameter changes now, can any change be occurred for other Saturn data (or any other planets data)? My basic job in this research is to analyze the data to know how this data is created and why be found by its value.

I hope – my point of view is explained clearly – when we ask to know how each planet data is created we will have a complete detailed report about how the planets are created and moving – we will have a complete story about the solar system creation- and this story will depend on the planets data and facts

(2nd Question)

Is the Planet Data suitable and consistent with the physics theory?
This question is a remarkable one – we have many stories about how the solar system is created – But are these stories truth? Are our theories about the solar system able to explain the planets data? Suppose we find a contradiction between one physics theory and some planets data, does that disprove the theory? Let's discuss examples:

Example No. 1

By Masses gravity forces **Planet Orbital Distance** is defined! We know that
i.e.
More Mass = Less Distance, **Why Jupiter Isn't The Nearest Planet To The Sun?!**
Even **"Mercury –Venus–Earth"** order tells **More Mass= Longer Orbital Distance**
Simply the planets order contradicts the masses gravity concept!

Example No. 2

The Planets are created by the big bang theory (based on the random concept) which means – no geometrical planning is found before the solar system creation **BUT**
(The sun diameter/ the moon diameter)= (Earth orbital distance /Earth moon distance)
Because of the previous equation we see **the sun disc = the moon disc**
And based on that the total solar eclipse is occurred! Some geometrical process mentioned to make the diameters rate= the distances rate, enabling eclipse occurrence
The random creation concept (totally) is mistaken & disproved.

Example No. 3

Each planet data is created independently from other planets data

$$\frac{28.3 \, \text{Neptune Axail Tilt}}{26.7 \, \text{Satrun Axail Tilt}} = \frac{26.7 \, \text{Satrun Axail Tilt}}{25.2 \, \text{Mars Axail Tilt}} = \frac{25.2 \, \text{Mars Axail Tilt}}{23.4 \, \text{Earth Axail Tiltt}} = 1.0725$$

Here we don't try to disprove any theory – we try to understand how the planets data is created – Why 4 Planets Axial Tilts are created rated to each other by the same rate (1.0725)? What geometrical reason is behind this equation?

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3- Mercury, Venus and Earth Motions.

3-1 Mercury, Venus and Earth Motions depend on energy of a light beam its velocity =1.16 mkm/sec

3-2 The inner planets orbital & internal distances can't be created if there's no a light velocity =1.16 mk/sec behind their creation

3-3 Mercury, Venus & Earth are 3 gears in one machine – their motions are unified in one general motion.

3-1 Mercury, Venus and Earth Motions depend on energy of a light beam its velocity =1.16 mkm/sec

I-Data

(1)
4224 seconds x 1.16 mkm/ sec= 4900 mkm (Jupiter orbital circumference)
(2)
3600 seconds x 1.16 mkm/sec = 4214 mkm (Jupiter Venus circumference) (error 1%)
(4212 mkm = 2π x 670 mkm Venus Jupiter Distance)
(3)
5040 seconds x 1.16mkm/ sec = 5864 mkm (Mercury Pluto Distance)
(5864 mkm = 2π x 929 mkm Earth Jupiter Distance)   (error less than 1%)

I-Discussion

Equation No. (1)
4224 seconds x 1.16 mkm/ sec= 4900 mkm (Jupiter orbital circumference)
This equation we have discussed in the paper introduction with details

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Equation No. (2)

3600 seconds x 1.16 mkm/sec = 4214 mkm (Jupiter Venus circumference)

What does this equation tell?

Velocity of light (1.16 mkm/sec) uses a time 3600 s to produce a distance 4212 mkm

Let's think …. If the distance and time values are related to Venus Data – that may enable us to conclude that- Venus Data is created based on the light velocity (1.16 mkm/sec) which prove its existence

1st The Distance

4212 mkm = 2π x 670 mkm Venus Jupiter Distance (Error 1%)

The distance value is created based on Venus Data because the distance 670 mkm is Venus Jupiter Distance

2nd The Time

Is the period 3600 seconds related to Venus Data? (error less 1%)

(1)

3600 seconds = **116.75 seconds x π^3**

(2)

$$\frac{3600\,\text{seconds}}{224.7\,\text{seconds}} = \frac{116.7\,\text{seconds}}{7.25\,\text{seconds}} = 16.02$$

Where

116.75 days	= Venus Day Period
224.7 days	= Venus Orbital Period
π^3	= (Uranus Axial Tilt / Jupiter Axial Tilt)
7.25 degrees	= The sun Obliquity to ecliptic

Discussion

The value 3600 seconds is related to Venus Data because

(1) Data number **(1)** uses π^3 to produce the value 116.75 seconds – and the rate π^3 is we know perfectly – it's the main rate in the solar system geometry – for two reasons, first because it's the rate between 2 basic planets axial tilts- and second which is more important the rate **π^3 x 2872.5 mkm =90000 mkm =c^2**

That means the rate π^3 is a unique one in the solar system and when is used with 3600 produces the value 116.75 seconds which will be seen by us as 116.75 days (Venus Day)

(2) Data No. **(2)** show Venus data interacts with both values 3600 and 7.25

Conclusion

The equation shows that Venus moves during its orbital period a distance = Venus Jupiter Distance because Venus Data is created depending on the light velocity 1.16mkm/sec which creates the 4 planets data and unifies the general system

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Equation No. (3)

5040 seconds x 1.16mkm/ sec = 5864 mkm (Mercury Pluto Distance)

Discussion

Again we need to prove that, the time and distance values are related to Earth

1st The Distance

5864 mkm = 2π x 929 mkm Earth Jupiter Distance   (error less than 1%)

Earth Jupiter distance   =929 mkm but

Earth Orbital Circumference =940 mkm so **The Error** with the value 929 mkm < 1%
i.e.

The Distance 5864 mkm is related to Earth Data

2nd The Time

Is the period 5040 seconds related to Earth Data?

5040 seconds is the required period to make Mercury day =176 solar days – so the period 5040 second is related to Mercury and Not Earth!

Let's remember how this value is created

Mercury Energy =86400 mkm = 5040 x 17.2 mkm, but 17.2 degrees = Pluto orbital inclination – means the value 5040 is created by Pluto effect on Mercury data

But

(3)

$$\frac{5040\,\text{seconds}}{176\,\text{seconds}} = \frac{180\,\text{deg}}{2\pi\,\text{deg}} = 28.6\,\text{degrees}$$

Neptune Axial Tilt =28.3 degrees = 28.6 degrees x 0.99

(4)

(17.4 deg (the inner planets orbital inclinations total) /17.2 deg) = 0.99
Also

(23.6 deg (the outer planets orbital inclinations total) /23.4deg Earth Axial Tilt) = 0.99
So

The rate 0.99 transports the relationship between Mercury and the value 5040 to make the Earth a partner in this relationship

Note Please

Data **(3)** shows that the rate (5040/176) is a standard rate because it equals (180/2π) that means the rate (5040/176) is a geometrical player as π- so it's not related to any planet – it's a player for the basic geometry on which the whole system depends.

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The Value 5040 Analysis

The previous value is used commonly in the solar system
The next analysis may show that clearly

5040 degrees

= 41 deg (solar planets orbital inclinations total) x 122.5 deg (Pluto Axial Tilt)

= 511.1 deg (solar planets axial tilts total)   x π^2

= 7 deg (Mercury orbital inclination) x 720 deg (Mercury Day Degrees)

=179.9 degrees   x 28.3 deg (Neptune Axial Tilt) (1%)

(179.9 degrees = 177.4 deg Venus axial tilt +2.5 deg Saturn orbital inclination)

5040 mkm

= 2814 mkm (Mercury Uranus distance) x 1.8 deg (Neptune orbital inclination)

= 1622.7 mkm (Uranus Neptune distance) x1.3 deg (Jupiter orbital inclination)

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3-2 The inner planets orbital & internal distances can't be created if there's no a light velocity =1.16 mk/sec behind their creation

I-Data

(a)

1.16mkm/ sec x 670 seconds = 778.6 mkm (Jupiter orbital distance)

(b)

1.16mkm/ sec x 627 seconds = 720.7 mkm (Mercury Jupiter distance)   (1%)

(c)

1.16mkm/ sec x 540 seconds = 627 mkm (Earth Jupiter distance)

(d)

1.16mkm/ sec x 2x 323.7 seconds =540 mkm (Mars Jupiter distance)   (2%)

(e)

1.16mkm/ sec x 4900 seconds   = 5678 mkm (Mars Pluto Distance)

Please remember

1.16mkm/ sec x 4224 seconds   = 4900 mkm (Jupiter Pluto Circumference)

(Note 4214 mkm =2π x 670 mkm Venus Jupiter Distance)

I-Discussion

(1) When the error in calculation is less than 0.5% I can't consider any difference between the values – Simply the measurements are done by human and error 0.5% is logical and easily acceptable.

(2) The previous data tells us that – the values which is used as distances in mkm units are used again as time periods in seconds – I found it's illogical to consider all data are used as time and distance values because of any pure coincidences!

(3) The data clearly provides a proof for high velocity motion where the time value is used easily as distance value –it's a motion of light clearly – and the values are used according to the equation **(x =ct) -** just c here not necessary =0.3 mkm/sec instead the supposed velocity 1.16 mkm/sec can be used also

(4) So if we deal with high velocity motions so the relativistic effects can be occurred simply- the following data can support this claim

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There Are Relativistic Effects In The Solar System

I-Data

Group No. 1

$$\frac{778.6\,\text{mkm Juppiter Orbital Distance}}{720.3\,\text{mkm Jupiter Mercury distance}} = 1.0725 \qquad (0.7\%)$$

$$\frac{720.3\,\text{mkm Jupiter Mercury distance}}{670\,\text{mkm Jupiter Venus Distance}} = 1.0725 \qquad (\text{No Error})$$

$$\frac{670\,\text{mkm Jupiter Venus Distance}}{629\,\text{mkm Jupiter Earth Distance}} = 1.0725$$

Let's remember the equation here again

$$\frac{28.3\,\text{Neptune Axail Tilt}}{26.7\,\text{Satrun Axail Tilt}} = \frac{26.7\,\text{Satrun Axail Tilt}}{25.2\,\text{Mars Axail Tilt}} = \frac{25.2\,\text{Mars Axail Tilt}}{23.4\,\text{Earth Axail Tiltt}} = 1.0725$$

II-Discussion

Please see the rate 1.0725

The rate is used frequently in the solar system data – if found because of the relativistic effects

Velocity =0.99 c (where c =0.3mkm/sec) can cause a contraction with rate =7.1
But

(7.1/100)+1 = 1.071

So the rate 1.072 is created by the previous equation
I just try to prove that the Data is Group no.1 is created because of the relativistic effects which prove that we deal with high velocity motions
Supporting the claim that the light velocity 1.16 mkm/sec effects on the planets to create their data
The next list of distances which use the rate 1.0725 may help as us to have more confidence in the argument
Let's see it in following..

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Group No. 2

1. $\dfrac{\text{Earth Daily Motion } 2.58 \text{ mkm}}{\text{Moon Orbital Circumference } 2.41 \text{ mkm}} = 1.0725$ (No Error)

2. $\dfrac{\text{Apogee orbital radius } (406000 \text{ km})}{\text{Total Solar Eclipse radius } (378500 \text{ km})} = 1.0725$ (No Error)

3. $\dfrac{778.6 \text{ mkm Juppiter Orbital Distance}}{720.3 \text{ mkm Jupiter Mercury distance}} = 1.0725$ (0.7%)

4. $\dfrac{720.3 \text{ mkm Jupiter Mercury distance}}{670 \text{ mkm Jupiter Venus Distance}} = 1.0725$ (No Error)

5. $\dfrac{670 \text{ mkm Jupiter Venus Distance}}{629 \text{ mkm Jupiter Earth Distance}} = 1.0725$ (0.6%)

6. $\dfrac{\text{Saturn Orbital Distance } (1433.5 \text{ mkm})}{\text{Sarurn Venus Distance } (1325.3 \text{ mkm})} = 1.0725$ (Error 0.8%)

7. $\dfrac{\text{Saturn Earth Distance } (1284 \text{ mkm})}{\text{Sarurn Mars Distance } (1205.6 \text{ mkm})} = 1.0725$ (Error 0.7%)

8. $\dfrac{\text{Uranus Orbital Distance } (2872.5 \text{ mkm})}{\text{Uranus Mars Distance } (2644 \text{ mkm})} = 1.0725$ (Error 0.7%)

9. $\dfrac{\text{Jupiter Orbital Circumference } (4894 \text{ mkm})}{\text{Neptune Orbital Distance } (4495.1 \text{ mkm})} = 1.0725$ (Error 1.5 %)

The question is

Why these distances should be equal and then contracted to be rated with 1.0725??

Other Distances may help us to see as clear as possible
Let's see them in following:

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Group No. 3

- 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   x π
- Earth Neptune Distance   = Mercury **Saturn** Distance   x π
- Jupiter Uranus Distance   = Venus Jupiter Distance   x π
- Jupiter Pluto Distance   = Uranus Neptune Distance   x π
- Uranus Pluto Distance   = Earth Orb. Circumference   x π
- Neptune Orb. Distance   = **Saturn** Orb. Distance   x π
- Pluto Orbital Distance   = Earth Orb. Circumference   x π

Discussion

Simply we deal with light motions –
The distances are equal because a light beam is reflected and for that both are equal
But when the reflected one passes in another frame relative to us get contraction for its length according to lorentz equation
For that reason – some distances are equal and other are rated with 1.0725
The data simply supports the claim that – we deal with light motions or at least high velocity motions – which supports the claim that a light velocity 1.16 mkm/sec is found in the solar system.

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3-3 Mercury, Venus & Earth are 3 gears in one machine – their motions are unified in one general motion.

I-Data
(I)

Suppose Mercury rotation period =58.66 solar days is considered =1 So the following will be correct			
Planet	Planet rotation period	Planet orbital period	Planet day period
Mercury	1	1.5	3
Venus	$(\pi+1)$	-	**2**
Earth	-	2π	-
Earth Moon	0.465	0.465	**0.5**

II- Data

Equation No. (A)

$$\frac{\text{Venus Velocity } 35 \text{ km/s}}{\text{Earth Velocity } 29.8 \text{ km/s}} = \frac{\text{Moon Velocity } 27.9 \text{ km/s}}{\text{Mars Velocity } 24.1 \text{ km/s}} = \frac{\text{Neptune Velocity } 5.4 \text{ km/s}}{\text{PLuto Velocity } 4.7 \text{ km/s}} = 1.16$$

Equation No. (B)

$$\frac{\text{Mercury Velocity } 47.4 \text{ km/s}}{\text{Venus Velocity } 35 \text{ km/s}} = \frac{\text{Mars Velocity } 24.1 \text{ km/s}}{\text{Ceres Velocity } 17.8 \text{ km/s}} = \frac{\text{Ceres Velocity } 17.8 \text{ km/s}}{\text{Jupiter Velocity } 13.1 \text{ km/s}} = \frac{\text{Jupiter Velocity } 13.1 \text{ km/s}}{\text{Saturn Velocity } 9.7 \text{ km/s}} = 1.345$$

(Note Please 1.345= (1.16)^2)

III- Discussion

The data shows the idea as clear as possible

Mercury, Venus, Earth and the Earth Moon show clearly that they are gears in one machine – no independent motion here -

All motions are done complementary to each other

Why do these planets move relative to each other?

We deal hear with a puppets theatre – there's one thread connect these 4 puppets together and this thread force them to move relative to each other and complementary to each other –

So the planets motions data is created relative to each other and complementary to each other

In fact the whole solar system is a train move one unified motion by its planets as a train carriages –

But the current 4 planets provide us a treasure of data shows clearly the idea – the other planets data need more deep analysis to reach to this conclusion

Conclusion

The 4 planets data is created relative to each other and copmplmentary to each other because they are created depends on light beam its velocity =1.16 mkm/sec by Help of Jupiter

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4- Planet Matter & Motion

4-1 Are the matter properties created as a function of its motion?
(i.e. Is Lorentz length contraction effect on the particle own nature or it's just illusion of measurements)

4-2 Is there any effect on Mercury own nature resulting from its day period change from 176 solar days to 175.94 solar days?

4-1 Are the matter properties created as a function of its motion?

Is Lorentz Length Contraction a real phenomenon occurred for particle own nature or found by illusion of measurements? The same question for **Mass Increasing**

We have discussed this question frequently

We Accept That Lorentz Length Contraction Is A Real Phenomenon And Can't Be Illusion Of Measurements Why??

Because
1- The Physics Experimental Devices measure This Contraction And In Physics What's Measured = What's Real (By This Rule We Save The Physics Methodology Credibility)
2- If we claim that – the length contraction is found by illusion of measurements- that means simply – the particle data correct definition is found only when no difference in velocity between my motion and this particle motion – by such way I will be **The Universe Reference Point** – which is similar to a person looks a at mirror

The previous 2 reasons force us to accept that – length contraction and mass increasing are real changes occurred for the particle own nature resulting of high velocity motion.

This argument helps us to answer how the matter is created?
Because particle data is changing with high velocity motion – that tells us – particle data (almost) is created relative to this particle motion…

Any way this conclusion still face more difficulties… such as

(1) **LENGTH CONTRACTION CONCEPT** can't be clear for us – where – in mass increasing explanation we have understood that – Particle mass is increased because more energy is provided to the particle through its acceleration – and this energy causes the mass increasing ($E=mc^2$) – but why the length is contracted? If the particle is provided with more energy that means more mass, more volume …etc means particle length should be increased and not contracted! So why the length is contracted?! Still the analysis point is difficult because – while particle length and mass only are changed with this particle high velocity motion- we have no explanation why these 2 data only are changed by such motion? why not the density for example?! And still the analysis faces the complex question

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because – based on these changes we had to have an equation between any particle length and its mass – also this equation is still absent-

And at end we don't understand why Einstein didn't interest for particle length and mass changes in his theory- instead – he uses space-time geometry to explain the distance & time changes by particle high velocity motion, ignoring the particle length and mass as if their equations were not found?!

(2) If particle data is created relative to its motion – that causes complex situation with Newton concept of the sun gravity – because Newton told that the mass is the planet motion reason – but lorentz tells that particle data (and mass) is created relative to this particle motion- so the question is …what's found first the planet mass or planet motion, otherwise we have to answer how does the planet move?

(i.e. Is Lorentz length contraction effect on the particle own nature or it's just illusion of measurements)
Please review my papers

Lorentz Length Contraction Is A Real Phenomenon & Not Illusion Of Measurements
https://vixra.org/abs/1911.0468

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

4-2 Is There Any Effect On Mercury Own Nature Resulting From Its Day Period Change From 176 Solar Days To 175.94 Solar Days?

- Because The Particle Data Is Created As A Function Of Motion (As Lorentz Transformations Tell Us)

- Because Mercury day change from 176 solar days to be 175.94 solar days

- That changes Mercury Motion

- The motion change led to change of Mercury own nature because the matter nature is created as a function of its motion.

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