

## Mercury Velocity By Gerges Francis Twadrous

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### Abstract

Solar Data Analysis tells us that..... Mercury has 2 velocities

1<sup>st</sup> Velocity = 47.4 km/sec which is registered in NASA Planetary Fact Sheet

2<sup>nd</sup> Velocity= 47.8 km/sec which is necessary velocity to cover Mercury Orbital Circumference  $57.9 \text{ mkm} \times 2\pi = 364 \text{ mkm}$  in Mercury Orbital Period 88 days

The difference between both velocities = 1%

Why are there 2 velocities for the same Planet? And how that can be possible?

This question is similar to the old question concerning Newton 3<sup>rd</sup> Law "why for Each Action there's reaction equal in value and opposite in direction? In brief... why the forces are created in double?

### Introduction

Mercury Data always causes puzzles, from long time we know the following:

- Venus rotation period 5832.5 hours = Mercury rotation period 1407.6 hours  $\times (\pi+1)$

Also

- Mercury Orbital Circumference =  $57.9 \text{ mkm} \times 2\pi = 364 \text{ mkm}$  but this number also equal to  $88 (\pi+1) = 364$  .... Of course the units are different but the values are equal... where  $(\pi+1)$  is repeated..

The previous data are considered as pure coincidences...

But In fact

Mercury registered velocity in NASA Planetary Fact Sheet is decreased from the necessary velocity with 1% .... We don't know why the velocity is decreased?

Also the rate 99% or 0.99 is very famous rate in our studies; we dealt with it many times before...

So I found obligation to analyze this situation to know what's happening here

Let's start immediately

### **3- Mercury Velocity**

#### **I- Data**

#### **Equation No.1**

The registered velocity = 47.4 km/ sec which equals 4.095mkm/ day

The required velocity =47.8 km/sec which equals 4.135 mkm/ day (that equal  $(\pi+1)*1$ million km/sec.

The rate between both  $(47.4/47.8) = 0.99$

#### **Equation No.2**

4.095 mkm/ day x 175.94 days (Mercury day) = 720.5 mkm (Mercury Jupiter distance)

#### **Equation No.3**

4.135 mkm/ day x 175.94 days (Mercury day) = 727.5 mkm (Mercury orbital circumference x 2)

#### **Equation No.4**

4.135 mkm/ day x 346.6 days (nodal year) = 1433.5 mkm (Saturn orbital distance)

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

4.095 mkm/ day x 1433.5 days = 5870 mkm (Pluto orbital distance)

#### **Equation No.6**

5040 seconds x 1.16 mkm/sec (light velocity) = 5870 mkm

#### **Equation No.7**

144 mkm x  $2\pi \times 10^5 = 5040 \times 18055$  mkm (Uranus Orbital Circumference)

#### **Equation No.8**

(Uranus diameter/ the moon diameter)=  $(10^5/$  Mars diameter) = (Jupiter radius/ mercury diameter) =( Uranus Mass/ Earth Mass)

#### **Equation No.9**

(Mercury velocity 4.095 mkm daily / Earth velocity)= (Metonic period 6939.75 days/ Jupiter orbital period 4331 days)

(Mercury velocity 4.135 mkm daily / Pluto velocity)= (Metonic period 6939.75 days/ Mars orbital period 687 days)

#### **Equation No.10**

2095 mkm (Jupiter Uranus distance) = 4.095 mkm daily x 511.5

## **II- Discussion**

### **3-1 Mercury Jupiter Distance**

#### **Equation No.2**

4.095 mkm/ day x 175.94 days (Mercury day) = 720.5 mkm (Mercury Jupiter distance)

#### **Equation No.3**

4.135 mkm/ day x 175.94 days (Mercury day) = 727.5 mkm (Mercury orbital circumference x 2)

The previous equations tell us a clear information

- The first velocity covers a distance = Mercury Jupiter distance during Mercury day
- The second velocity covers a distance = Mercury orbital circumference x 2 during Mercury day

#### **Both distances are real**

Does that mean ... both velocities are real!

How can we understand that? How one planet can have 2 different velocities one of them =99% and the other =100%...

The previous equations units are consistent perfectly, and tell us clear information..... if there's a velocity for Mercury = 4.135 mkm daily, Mercury will cover a distance = double his orbital circumference distance during his day period... we have no proof to confirm that this velocity 4.135 mkm daily is found really...

One question only...

Newton told us that, for each action there's an equal reaction...are we sure that the reaction =100% of the action..?

Is it impossible for that reaction to be 99% of the action?

Is it possible for the planet velocity to produce another velocity as reaction?!

### 3-2 Distance and Time Values Equivalence

Equation No.4

$$4.135 \text{ mkm/ day} \times 346.6 \text{ days (nodal year)} = 1433.5 \text{ mkm (Saturn orbital distance)}$$

Equation No.5

$$4.095 \text{ mkm/ day} \times 1433.5 \text{ days} = 5870 \text{ mkm (Pluto orbital distance)}$$

Equation No.6

$$5040 \text{ seconds} \times 1.16 \text{ mkm/sec (light velocity)} = 5870 \text{ mkm}$$

In my previous paper

The Time definition

<http://vixra.org/abs/1805.0523>

I claimed that the time and Distance Values become equivalent as a relativistic effect

Let's review this idea here again

- I claim there's a physical point moves with light velocity relative to another physical point
- This velocity we can't observe but we can observe its relativistic effects on distance and time values
- Also I claim the solar group is one machine or one integrated system, which causes these relativistic effects to be shown in different points in solar group..
- We know the relativistic effects from Special theory of relativity which are
  - 1- Time Dilation
  - 2- Length contraction
  - 3- Mass increasing
  - 4- **Time and distance values equivalence**

Point No.4 is my suggested contribution in Special theory of relativity...

I claim

When a particle (An Energy) moves with light velocity (or near to light velocity), the distance and time values will be equivalent...

In clear statement

Time And Distance values equivalence is one of the main solar geometrical structure features ...this is my hypothesis and here we'll discuss one application on this idea

Equations No. 4,5 and 6 we have discussed before in

Solar Planet Diameter Creation Rule

[https://www.academia.edu/37012262/Solar Planet Diameter Creation Rule](https://www.academia.edu/37012262/Solar_Planet_Diameter_Creation_Rule)

or

[https://www.slideshare.net/Gergesfrancis/solar-planet-diameter-creation-rule?qid=758bbef2-9a42-4c24-bb83-75a6c7097fdf&v=&b=&from\\_search=1](https://www.slideshare.net/Gergesfrancis/solar-planet-diameter-creation-rule?qid=758bbef2-9a42-4c24-bb83-75a6c7097fdf&v=&b=&from_search=1)

Let's review these equations here again

#### **Equation No.4**

$$4.135 \text{ mkm/ day} \times 346.6 \text{ days (nodal year)} = 1433.5 \text{ mkm (Saturn orbital distance)}$$

This Equation is consistent equation, tells clear information... Mercury velocity = 4.135mkm/day (if found really) will enable Mercury to cover a distance = Saturn orbital distance 1433.5 mkm during the nodal year period (346.6 days)

The velocity 4.135 mkm daily provides 2 used values in the solar system geometry;

So, if the velocity is real, the equation will be working...

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

$$4.095 \text{ mkm/ day} \times 1433.5 \text{ days} = 5870 \text{ mkm (Pluto orbital distance)}$$

This Equation is inconsistent and causes difficulties, because we know Saturn orbital distance = 1433.5 mkm, this value here is used as a time period means = 1433.5 days

What does this equation tell us?

Mercury registered velocity enable him to cover a distance = 5870 mkm (Pluto Orbital Distance) during a period = 1433.5 days!

How can we understand that... Saturn orbital Distance in fact is used as a period!

Let's see equation No. 6 may help us to understand much better

#### **Equation No.6**

$$5040 \text{ seconds} \times 1.16 \text{ mkm/sec (light velocity)} = 5870 \text{ mkm}$$

The equation tells new information!

- Light beam whose velocity 1.16 mkm/ sec (which I supposed it's found and used it many times in my papers) will cover Pluto orbital distance (5870 mkm) in a period = 5040 seconds = 84 minutes which is the difference period from Mercury day and 176 days... (Mercury day is less than 176 days by this value 5040 seconds...)

But

- Mercury covers this same distance by his registered velocity is a period = 1433.5 days
- This argument supports the claim that the distance values will be equivalent to time values as relativistic effects...

But this argument provides us with absolute new conclusion

**(Light Beam moves, And the Planet follows the Light Motion but with Different Rate of Time)**

We have found that with the moon motion in Metonic cycle

Light beam whose velocity =0.3mkm/sec moves from Jupiter to Uranus in a period =6939.75 seconds

The moon rotates Metonic Cycle in 6939.75 days

The moon follows the light motion but with different rate of time

That supports my claim "there are many different rates of time in the solar group"

### 3-3 Mercury Day

I suppose Mercury day be 176 days but her decreased with a value 84 minutes because of Mars immigration (I claim Mars immigrated from his original point with orbital distance = 84 mkm to dwell in his current point with orbital distance =227.9mkm)

Please review

The Sun Data shows Relativistic Effects (revised)

<http://vixra.org/abs/1806.0209>

### Equation No.7

$$144 \text{ mkm} \times 2\pi \times 10^5 = 5040 \times 18055 \text{ mkm (Uranus Orbital Circumference)}$$

The equation tells us that Uranus and Mercury helped Mars to perform his displacement which equal 144mkm... this contribution contain the factor  $10^5$  which is found in Equation No.8 as following

### Equation No.8

$$(\text{Uranus diameter/ the moon diameter}) = (10^5 / \text{Mars diameter}) = (\text{Jupiter radius/ mercury diameter}) = (\text{Uranus Mass/ Earth Mass})$$

The contribution wasn't limited to the planets orbital distances but also depend on diameter which supports the claim that there's a relationship between the planet diameter and his orbital distance...

### 3-4 Mercury Velocity Importance

Equation No.9

$$(\text{Mercury velocity } 4.095 \text{ mkm daily} / \text{Earth velocity}) = (\text{Metonic period } 6939.75 \text{ days} / \text{Jupiter orbital period } 4331 \text{ days})$$

$$(\text{Mercury velocity } 4.135 \text{ mkm daily} / \text{Pluto velocity}) = (\text{Metonic period } 6939.75 \text{ days} / \text{Mars orbital period } 687 \text{ days})$$

Equation No.10

$$2095 \text{ mkm (Jupiter Uranus distance)} = 4.095 \text{ mkm daily} \times 511.5$$

The previous Equations tell us that Mercury uses both velocities... that supports the claim both velocities are real!!

The following table shows us how the factor  $(\pi+1)$  is very important in the solar geometry

### 3-5 Factor ( $\pi+1$ )

- a-  $(\pi+1) \times 687$  days (Mars Orbital Period) = 2872.5 mkm (Uranus Orbital Distance)
- b-  $(\pi+1) \times 4331$  days (Jupiter Orbital Period) = 18000 mkm (Uranus Orbital Circumference)
- c-  $(\pi+1) \times 10747$  days (Saturn Orbital Period) =  $\pi^2 \times 4495.1$  mkm Neptune Orbital Distance
- d-  $(\pi+1) \times 224.7$  days (Venus Orbital Period) = 931 mkm (940 mkm Earth orbital circumference – error 1%)
- e-  $(\pi+1) \times 29.53$  days (synodic month) = 122.5 (Pluto axial Tilt degrees)

This factor uses also the distance as much as the periods as following...

- f-  $(\pi+1) \times 41.4$  mkm (Venus-Earth Distance) = 170 mkm (Mercury Mars Distance)
- g-  $(\pi+1) \times 670$  mkm (Venus-Jupiter Distance) = 2776 mkm (Venus Uranus Distance)
- h-  $(\pi+1) \times 680$  mkm (Venus Orbital Circumference) = 2818 mkm (Mercury Uranus Distance)
- i-  $(\pi+1) \times 655$  mkm (Jupiter Saturn Distance) = 2722 mkm (Earth Uranus Distance)

### Discussion

This paper provides one question only

Is there 2 velocities for the same planet? If yes why and how?

If not why we found many data depends on 2 different velocities for the same planets...

I wish we can see that our old concepts aren't sufficient to deal with the solar group geometry; we need better geometry to see much better...

We can't still fight with the gravity and distances limitation concepts and consider thousands of relationships as pure coincidences...they are not pure coincidences.. Our book of geometry needs more material to understand how the great machine works...

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#### Solar Planet Diameter Creation Rule

[https://www.academia.edu/37012262/Solar Planet Diameter Creation Rule](https://www.academia.edu/37012262/Solar_Planet_Diameter_Creation_Rule)

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[https://www.slideshare.net/Gergesfrancis/solar-planet-diameter-creation-rule?qid=758bbef2-9a42-4c24-bb83-75a6c7097fdf&v=&b=&from\\_search=1](https://www.slideshare.net/Gergesfrancis/solar-planet-diameter-creation-rule?qid=758bbef2-9a42-4c24-bb83-75a6c7097fdf&v=&b=&from_search=1)

#### Uranus Position In The Sky

<http://vixra.org/abs/1806.0212>

#### The Sun Data shows Relativistic Effects (revised)

<http://vixra.org/abs/1806.0209>

#### Earth Motion Produces the Moon Orbit

<http://vixra.org/abs/1806.0137>

#### The Time definition

<http://vixra.org/abs/1805.0523>

#### Solar Group Geometrical Structure

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

#### Earth and Mars Motions Interaction

<http://vixra.org/abs/1803.0432>

#### Solar Group General Description

<http://vixra.org/abs/1802.0075>

#### Why The Light Is The Universe Highest Velocity?

<http://vixra.org/abs/1801.0369>