# Solar Planet Velocity Analysis

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## Abstract

## Paper Hypotheses

(1)
Planet Velocity shows that Planet Motion is a part of A Greater Motion-
(2)
Planet Velocity shows that, Planets motions are similar to a train motion- it's one unified motion – and as a train moves with its carriages – the solar system moves one general motion with all planets. ("Train Motion Concept")
(3)
Planets different velocities can't disprove "the rain motion concept" because Planets motions are complementary to each other to enable the general unified motion to be performed which necessities the difference of velocities.

### Data References

Dwarf planet Ceres Data      https://solarsystem.nasa.gov/planets/dwarf-planets/ceres/in-depth/
Planetary Fact Sheet – Metric      https://nssdc.gsfc.nasa.gov/planetary/factsheet/

### References

Definition Of Motion (I)                    http://vixra.org/abs/1909.0263
Why does Earth Moon Orbit regress?           http://vixra.org/abs/1909.0064
Matter Creation Principle (Part V)           http://vixra.org/abs/1908.0367
Is the 2737 Phenomenon a real one? (II)      http://vixra.org/abs/1908.0583

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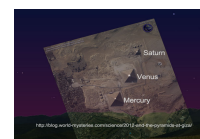All my papers        http://vixra.org/author/gerges_francis_tawdrous

**The Assumption Of S. Virgin Mary.**
**Written in Cairo – Egypt**
**16th September 2019 (S. George)**

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## 1-Introduction

The solar system moves as a train – each planet is similar to a train carriage – as a train moves with its carriages together – the solar system moves with all planets together…!

This attractive idea captures me and I can't stop trying to prove it –

It becomes my treasure –

While for years I try to prove that – solar planets consist together one building and each planet is a part of this same building – Through more than 150 papers I have published on my accounts – I have tried hardly to prove this fact

I used Planet Data Analysis as my basic method to do that

Then I have reached to this good idea –the solar system moves as a train- and found that this idea can be a good proof for my claim and provide even additional proves depend on planets motions and not only on planets data analysis

In this paper I analyze the planets velocities to show that these velocities can be created as such only if the solar planets move together as a train– I mean – If a solar planet moves individually and independently from other planets motions its velocity value should be changed – but only because the solar planet moves depending on other planets motions –because of this reason the planet has this specific velocity value…

Let's use an example for better explanation

**Example no.1**

$$\frac{\text{Mercury Velocity } 47.4 \text{ km/s}}{\text{Jupiter Velocity } 13.1 \text{ km/s}} = \frac{\text{Venus Velocity } 35 \text{ km/s}}{\text{Saturn Velocity } 9.7 \text{ km/s}} = \frac{\text{Mars Velocity } 24.1 \text{ km/s}}{\text{Uranus Velocity } 6.8 \text{ km/s}} = 3.6$$

**(Max Error 1.7%)**

The previous equation is one of many others we should discuss in this paper –

The first observation is–planets velocities are rated to each other ! Why?

If Planet motion is independent from other planets motions and found based on Planet & Sun masses gravity forces – why these velocities are rated to each other…?

In this paper we should see that – there are many similar equations which lead to conclusions against the classical description – and suggest that – Planet motion depends on other planets motions…

The paper data discussion supports our confidence in "**The Train Motion Concept**" – but here let's ask one more question-

How a planet motion can be effected by other planets motions? What's the theoretical question behind? **It's Space Definition**- we need to define the space explaing if it can support planets motions effect one each other or prevent such effects to be found –

i.e. the paper has a deep theoretical question behind which is **"What's The Space?"** let's start our discussion immediately.

## 2- Methodology

Paper methodology is mentioned in (Motion Definition (I))

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## 3- Planet Velcoity Analysis

3-1 Data (3 Groups)

3-2 Discussion (I)

3-3 Discussion (II)                                3-4 The Conclusion

## 3-1 Data (3 Groups)

### Group No. 1

**Equation No. 1**

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

**Equation No. 2**

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

**Equation No. 3**

$$\frac{\text{Earth Velocity } 29.8 \text{ km/s}}{\text{Mars Velocity } 24.1 \text{ km/s}} = \frac{\text{Venus Velocity } 35 \text{ km/s}}{\text{Moon Velocity } 27.9 \text{ km/s}} = \frac{\text{Uranus Velocity } 6.8 \text{ km/s}}{\text{Neptune Velocity } 5.4 \text{ km/s}} = 1.254$$

**Equation No.4**

$$\frac{\text{Mercury Velocity } 47.4 \text{ km/s}}{\text{Jupiter Velocity } 13.1 \text{ km/s}} = \frac{\text{Venus Velocity } 35 \text{ km/s}}{\text{Saturn Velocity } 9.7 \text{ km/s}} = \frac{\text{Mars Velocity } 24.1 \text{ km/s}}{\text{Uranus Velocity } 6.8 \text{ km/s}} = 3.6$$

### Group No. 2

No.5

**Mercury Velocity daily 4.095 mkm x Ceres Velocity Daily 1.5434 mkm = $2\pi$ mkm$^2$**

No.6

**Venus Velocity daily 3.02 mkm x Mars Velocity Daily 2.082 mkm = $2\pi$ mkm$^2$**

No.7

**Earth Velocity daily 2.58 mkm x Moon Velocity Daily 2.082 mkm = $2\pi$ mkm$^2$**

### Group No. 3

No.8

**Mars Velocity Daily 2.082 mkm = 1/ (Neptune Velocity Daily 0.4665mkm)**

No.9

**Moon Velocity Daily 2.41 mkm = 1/ (Pluto Velocity Daily 0.406 mkm)**

No.10

**Earth Velocity Daily 2.58 mkm = Pluto Velocity Daily 0.406 mkm x $2\pi$**

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## 3-2 Discussion (I)

<div align="center">

**Group No. 1**
</div>

(Max Error 1.2%)

### Equation No. 1

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

### Equation No. 2

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

### Equation No. 3

$$\frac{\text{Earth Velocity } 29.8 \text{ km/s}}{\text{Mars Velocity } 24.1 \text{ km/s}} = \frac{\text{Venus Velocity } 35 \text{ km/s}}{\text{Moon Velocity } 27.9 \text{ km/s}} = \frac{\text{Uranus Velocity } 6.8 \text{ km/s}}{\text{Neptune Velocity } 5.4 \text{ km/s}} = 1.254$$

### Please Note

    (I)     **1.345**     = $(1.16)^2$

    (II)    **1.345**    = 1.254 x 1.0725

Let's summarize these equations analysis in following:

- The previous 3 equations show that – all planets velocities are created relative to each other – which disproves the planet independent motion concept

- i.e. Planet can't move independently from other planets – on the contrary – all planets motions are relative and found depending on each other…

- The three equations depend on each other also because
  - Second equation rate 1.345 = squared of first equation rate $(1.16)^2$
  - Second equation rate 1.345 = Third equation rate 1.254 x 1.0725
  - (1.0725 is found by relativistic effects and will be discussed in 3-3)

- The previous Data tells that – Planets Velocities are created relative to each other which can be found only if these planet cooperate to produce one unified motion by their different motions.

Simply
- Planets Velocities are components in one greater system that's why they are relative to each other…
- The velocity dependency proves here depend also on Planets Data Analysis – but Planets Velocities Analysis can use the planets meeting cycles to prove that these cycles are found only if these planets move as parts in greater system

This discussion can be more clear if we discuss (1) The Rest Data  (2) the relativistic effects……let's do that in following

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## Group No. 2

No.5
**Mercury Velocity daily 4.095 mkm x Ceres Velocity Daily 1.5434 mkm = 2π mkm$^2$**
No.6
**Venus Velocity daily 3.02 mkm x Mars Velocity Daily 2.082 mkm = 2π mkm$^2$**
No.7
**Earth Velocity daily 2.58 mkm x Moon Velocity Daily 2.082 mkm = 2π mkm$^2$**

## Group No. 3

No.8
**Mars Velocity Daily 2.082 mkm = 1/ (Neptune Velocity Daily 0.4665mkm)**
No.9
**Moon Velocity Daily 2.41 mkm = 1/ (Pluto Velocity Daily 0.406 mkm)**
No.10
**Earth Velocity Daily 2.58 mkm =  Pluto Velocity Daily 0.406 mkm x 2π**

How to understand these equations?

- The data is clear before us – there's no way to create any planet velocity
  independent from others velocities – simply they are a group relative and
  depending on each other – I have one proof for this idea… let's write it here

### Additional Data

- Earth Velocity 2.58 mkm/ day        = Pluto Velocity 0.406 mkm/ day        **x 2π**

- Pluto Orbital Distance 5906 mkm  =Earth orbital circumference 940 mkm **x 2π**

- Pluto Day 153 hours                = Earth Day 24 hours                        **x 2π**

Simply the rate 2π is not found only between Earth and Pluto velocities- but also
between other different data – means the velocity was in the same phase with other
data! i.e. Planet Velocity (Earth and Pluto) can't be created independently from other
Data.
To see that much better let's discuss the relativistic effects in the solar system

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## 3-3 Discussion (II)

$$1.345 = 1.254 \times 1.0725$$

Why the rate 1.0725 is found in this equation? Because the rate 1.254 is created from the original one 1.345 by relativistic effects - let's remember one of the relativistic effects examples

### Example No. (I )

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

### Explanation

(**My Hypothesis** There's 2 higher velocities in solar system $v_1 = 0.99c$ produces length contraction rate =7.1 and with complex system this rate be 1.0725 – and the second velocity $v_2 = 0.9999c$ which produces length contraction rate =71)

How 1.0725 is produced?
$1 + (7.1/100) = 1.071$ which is very near to 1.0725 (that means $v_1 = 0.99$ produces length contraction rate =7.1 but the solar system uses this same rate 7.1 by a complex geometrical process to produce the rate 1.0725)

So let's explain the previous Equation based on that…

1.  Neptune Axial Tilt 28.3 degrees is the master value in this equation because Neptune reflected Jupiter energy toward the solar inner planets
2.  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 $\pi$)

Then

3.  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

4.  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) ……

**Note Please**

(1) If the previous explanation is correct that will support the same claim "Planet motion can't be created independently from other planets motions", especially because Planet Axial Tilt effects on Planet motion

(2) Relativistic Effects claim is my idea, I suggest to explain the frequent using of 1.0725 – let's provide more data to make this picture more clear

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## More Data

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 %)

## Discussion

The rate 1.0725 is using frequently and widely in solar planets data

And we try to know how to explain such wide using

So I have suggested the relativistic effects – which we can consider a good idea to explain that –

Any way

Even if the respectful reader doesn't accept my relativistic effects claim

But

The repeat using of 1.0725 through huge number of data – even without explanation- tells us that – this data can't be independent from each other

There's an effective hand pass through all this data to classifies them into 2 clear categories

1st Category …….. Data is rated by 1.0725

2nd Category …….. Data isn't rated by 1.0725

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This effect can't be a specific effect for any data– it's a general effect and seen in different data – for example – the previous distances express around 45% of solar system total distances and they are rated with 1.0725

That's what I'm trying to prove – this rate 1.0725 using – is a part of the solar system general structure – one of its geometrical basics – and if it's found by relativistic effects as I claim – that means – a great part of the solar system is effected by relativistic effects- that explains such using….

For relativistic effect detailed discussion please review
A Summary Of My Research -Part 3- (Relativistic Effects Discussion)
http://vixra.org/abs/1907.0523

## 3-4 The Conclusion

The previous discussion is short and specialized one – I have tried to show that – the planets motions can't be independent from other planets' motions
Let's summarize our conclusions in following

(1) Planet Velocity shows that Planet Motion is a part of a greater motion-
(2) Planet motion can't be created independently from other planets motions - because it's created relative to other motions – where all of them consist together one unified general motion

i.e.

(3) Planet motion dependency on others motions –is – A Planet Motion Basic Property

i.e.

(4) If a planet motion is created independently from other planets motions – the solar system general motion can't be performed which will cause to stop all solar system motions.

## Main Conclusions
(1)
Solar Planet Velocity proves that, Planets motions are similar to a train motion- it's one unified motion – and as a train moves with its carriages – the solar system moves one general motion with all planets. ("Train Motion Concept")
(2)
Planets different velocities can't disprove "the rain motion concept" because Planets motions are complementary to each other to enable the general unified motion to be created which necessities the difference of velocities.
(3)
Solar Planet Velocity proves the solar system relativistic effects existence
(4)
Solar System Relativistic Effects prove that – The Solar System moves one unified general motion (Train Motion Concept)

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