**My Research Basic Questions**

2nd Course Student – Physics Department - Physics & Math Faculty –
Peoples' Friendship University – Moscow – Russia -2010-2013
TEL +201022532292  mrwaheid@gmail.com  / gergesgerges@yandex.ru
The Assumption Of S. Virgin Mary -Written in Cairo – Egypt –21st January 2020

**Abstract**

This paper tries to summarize the main ideas and questions in my previous papers -
It's just a guide through my papers – and I add some data for references which can be used in planets data analysis

**Gerges Francis Tawdrous +201022532292**

| | |
|---|---|
| Curriculum Vitae | http://vixra.org/abs/1902.0044 |
| E-mail | mrwaheid@gmail.com |
| LinkedIn | https://eg.linkedin.com/in/gerges-francis-86a351a1 |
| Facebook | https://www.facebook.com |
| twitter | https://twitter.com/tawdrous_f |
| Quora | https://www.quora.com/profile/Gerges-F-Tawdrous |
| Academia | https://rudn.academia.edu/GergesTawadrous |
| All my papers | http://vixra.org/author/gerges_francis_tawdrous |

Gerges Francis Tawadrous/                                                    1
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com            +201022532292

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**Part One**
**Papers Series From  No. 198 (Is There A Contradiction Between SR And GR?)**
**To                         No. 187 (Lorentz Length Contraction Analysis (SR Discussions)**
This series of papers provides one question only which is:

(I)

If

Lorentz Length Contraction is a real phenomenon effect on Particle own nature!

Does that mean Particle properties are created as a function in its motion?

In this case how to explain Planet Motion..

(II)

If

Lorentz Length Contraction is an illusion of measurements – that means - Lorentz Transformations equations are measured illusions! Such equations can be acceptable in physics science?

Gerges Francis Tawadrous/                                                    2
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com      mrwaheid@gmail.com                +201022532292

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**Part Two**

**Papers Series From  No. 186 (Is There A Contradiction Between SR And GR?)**
**To                     No. 170 (Lorentz Length Contraction Analysis (SR Discussions)**

**(Paper No. 186)** 99% light velocity through liquids (Einstein Book Relativity Section 13) – 99% is found in planets data
Space is the medium in which light travels with 0.3 mkm/sec.

**(Paper No. 185)** (**Observer Effect**…) human mind works by light velocity – data is found in papers No. 199-185-106-53 (to prove this idea, we should answer is Particle length is contracted by high velocity motion and why … Lorentz equations)

**(Paper No. 184)** (**Why We Don't Understand** …) because Planet motion is a light motion and should be studied under relativistic effects considerations- proves (1) Lorentz argument (2) double production (3) solar system is a continuum (4) distances equality (5) planet diameter and orbital distance relationship (6) Jupiter energy (7) mass distribution (8) earth & Pluto relationship (9) planets diameters table.

**(Paper No. 182)** (**Planet orbital period definition) (I)**
 Planet day, orbital period and rotation period all of them are created depending on each other- (Data provided hard argument)

**(Paper No. 183)** (**Planet orbital period definition) (II)**
Because outer planets rotation periods = their day periods – that causes the moon orbital period = moon rotation period
(Outer Planets Rotation Periods Total X Π = Earth Moon Rotation Period)
(Saturn Day 8/ Jupiter Day) = ( Uranus Day / Neptune Day) = 1.0725
Pluto day is defined according to the rate between the outer planet diameters total / Pluto diameter  (Note Please – Pluto Motion Per Solar Day = Planets Diameters Total)  The Moon Rotation Period Follows This Diameter Rate Rule.
planets velocities shows the dependency but the argument is hard

**(Paper No. 181) (Why Mercury day period =2 x 88 = 3 x 58.66?)**
to revolve around the sun needs 8 x Mercury day 175.94 = 1407.6 solar days but mercury rotation period =1407.6 hours
Mercury is primary planet creates his day period depending on his rotation period – which causes a different rate of time (there's a difference in rate of time which we know about Mercury and his own rate of time) (let's ask is the day period for one planet is different from another planet –i.e. the period of second in both planets are different according to their days periods)?

Gerges Francis Tawadrous/                                            3
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com             +201022532292

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**(Paper No. 179) (Mercury Day Period – short discussion- (I))**

Why Mercury day period = 175.94 solar days? A hypothesis 175.94 days x 2 = 351.88 days (this period is specific one)

2 x 175.94 solar days x 86400 seconds x 1.16 = 25920 x 1361 but 1361 = 1.3 x (sun mass / Jupiter mass)

Conclusions (1) Earth is the first created matter in universe (2) Two Mercury days are used to produce 1 solar day

**(Paper No. 180) (Mercury Day Period – short discussion- (II))**

Has the period (2 Mercury Days Period ) a relationship with the main equation (z= 2x +1y)

**(Paper No. 178) (Mars Orbital Distance Is Changed Through History)**

(1) Planets order

(2) (1/ mars degrees daily) = mars orbital inclination (that means mars orbital inclination is created depending on the solar day period)

 Proof (Mercury data effects on mars motion even after Mars immigrated from his original orbital distance) – how to prove?

(687/175.94) = (227.9/57.9) and 1407.6 = 24.6 x (180/$\pi$) but 25.2 = 1.9 x 13.18


**(Papers from no. 172 – 177) (Earth Moves By 2 Rtes Of Time)**

**(Part I No. 172)**     10921 x 86400 = 940 mkm (1 day on the sun = 1 year on Earth)

**(Part II No. 173)   1.16 mkm= 88000 x 13.18 –** (Outer planets days periods are comparer with their masses order! Why?)

**(Part III No. 174)**  88000 km becomes 88 days for Mercury! And then  176 days becomes 176000 km for the moon!! explain?

58.66 ($\pi$+1) = 243 – that may tell Venus rotation period is created based on Mercury motion (needs a deep analysis)

**(Part IV No. 175)** (needs a deep analysis)

**(Part V No. 176)** Total Solar Eclipse Calendar Shows The Energy Transportation Process Through The Solar System

**(Part VI No. 177)** (needs a deep analysis)


**Papers No. 169 -170- 171 (Moon orbital Motion analysis Parts I, II, III)**

(the papers discuss a theory of moon orbital motion - needs a deep analysis)

Gerges Francis Tawadrous/                                                        4

2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..

mrwaheid1@yahoo.com     mrwaheid@gmail.com            +201022532292

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## Part Three

**Papers Series From  No. 168 Why Saturn Orbital Distance = Saturn Uranus Distance? (II)**
**To                            No. 160 My Research Hypotheses**

**Question No.1 (A Hypothesis)**

The solar system is one machine, each planet is a gear in it. based on that, any Planet data is created depends on other planets data – all basic planets data are created based on one Equation only which is $(z = 2x+1y)$ – this equation has a specific form which is (1.16 mkm = 0.406 mkm +2 x 0.377 mkm) – The Previous Equation proves the claim that the solar system is one machine (i.e. The Solar System Is Similar To A Puppets Theater) – the previous proves this claim because of the number (2) which is found in both equation forms – where no. 2 defines the most basic data in the solar system geometry and based on that we can answer why Uranus Orbital Distance  = 2 x Saturn Orbital Distance.

(Can this hypothesis proof acceptable and valid?)

**Question No.2 (A Hypothesis)**

Because the solar system is one machine, So all planets move together one unified motion as a train carriages move together in one train – the planets different velocities can't disprove this claim because the velocity is a part in the solar system geometrical structure – means – any planet velocity is created relative to other planets data, depending on each other – by the same equation $(z=2x+1y)$ -   (So The Solar System Motion = All Planets Motion Together)

The solar system moves per solar day a distance = 1433.5 mkm = Saturn orbital distance – and this motion depends on light motion energy for 1 second period.

**Question No. 3**

Did the rate 99% is found for a geometrical necessity?

(We know that light velocity in liquid me be 99% of light velocity in vacuum)

**Important Equations**

(Sun diameter / moon diameter) = (Earth orbital distance/ Earth moon distance) = (Earth daily motion /Earth **RADIUS**)

(4.37/0.3) = (2x 377000/51118) = (51118/3475) = (Venus Mass/ Mercury Mass) = (Jupi radius /Mercury diameter)

Gerges Francis Tawadrous/                                         5
2$^{nd}$ Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com              +201022532292

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**Part Three**

**Papers Series From  No. 159 Solar Planet Velocity Analysis (Part 2)**
**To                         No. 150 Why Does Earth Moon Orbit Regress? (Part II)**

**(159-158-157) – Planets Motions are unified in one motion (Train Motion Concept) – Does planet velocity prove that? Can Earth and Moon Motions accompanying  prove the unified motion? (also ant planet with its moon)?**

**(156-155-154)** Is the matter created in motion or in static status? Is matter created as a motion result? Will matter annihilate in no motion status? (Planet Orb. Dis. And Planet Diameter & Mass Relationship Supports That) (**Lorentz**)

Does Planet motion contain also a light motion (means light and planet move together)? Is light energy cause planet motion? if the planet is a light beam and we see it as a planet why the light motion is found? Is this the same light beam from which the planet is created and the relativistic effects can cover the light nature completely or this is another light beam? What's the general equation which describe the planet + light motions together ? (1.16+0.3 =1.46 mkm) how to understand?

Is matter created depending on time period? Is the time a factor in matter creation? Because we see almost the space (distance) is partner in matter creation process, and the space-time geometry tells that, if the space is a partner that means the time should be also a partner, how to explain?

**(153-152-151)**

**2.58 mkm = Earth Motion = Moon Motion =- Pluto motion = Moon orbital circumference? Why** (note 2.58 mkm = Earth velocity daily = Pluto velocity per solar day x $2\pi$

Gerges Francis Tawadrous/                                              6
2$^{nd}$ Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com              +201022532292

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**Part Three**

**Papers Series From  No. 150 Why Does Earth Moon Orbit Regress? (II)**
**To                          No. 140 Light Velocity Effect On Solar System Geometry**

**(Paper 150)** Pluto Motion Concept

**(Paper 149)** one equation  1.44 x 12 = 17.28 – (17.2 deg = Pluto orbi. Inclaintion but 17.2 h = Uranus day)

**(Paper 148)** Mass Is Distributed By Geometrical Reasons- Planet Mass data proves

**(Paper 147)** Planet Mass Is Created to cause a difference In Planets Time Rates

**(Paper 145) (Part I)** planet motion is a double (planet motion + light motion) – why double motions? i.e. why light motion nature is discovered spite of the relativistic effects? light moves firstly and the planet follows the light- the planet and light motions are contributed in the same distance   (example) (1.16 x 5040 = 5846.6 mkm but 17.75 mkm x 327.6 days = 5818)

**(Paper 146) (Part II)** The Solar System is a machine of gears uses 1 second period to produce 1 day period how?! 71x 5.1 = 365.25 but 365.25 x 237 = 86400 seconds – (71 seconds can be 1 second by contraction) 5.18 the moon effect and 237 = Venus Rotation Period / Mars Rotation Period – the previous equation tells that – the inner planets uses 1 second to produce 86400 seconds – so what's the outer planets role in this process?

**(Paper 144) 2737 Is A Real Phenomenon** (my claim) – question : Is there any geometrical or physical reason for any cycle? For example Earth revolves the sun a complete revolution in 365.25 days why? and why not in 500 days? Pluto motion for 1 solar day produces a distance = all solar planets diameters total?

**(Paper 143) Is there** A **Planet Diameter & Orbital Distance Relationship? Yes …. The proves**

(1) Planets order    (2) Total Solar Eclipse  (3) D= R x $109^2$ (4) Planet diameter creation depending on $(71)^2$ (a table)  (5) Earth Moon orbit shows a relationship between planet diameters and the distance (6) Venus Diameter Table shows a relationship between the distances and diameters (7) Earth radius and daily motion equation (needs 2) (8) Moon angular diameter =0.5degrees  (note please 1002 =1.0725 x 940)

**(Paper 142)** Energy Transportation is proved by Jupiter Energy. **(Paper 140)** (difficult data) **(Paper 141)** does space store energy with different densities? 25920 = 0.3x 86400= 17.75 x 1461 …… (difficult claim  what we see a distance the light sees a time 500 sec x 1.16 = 580 mkm but works as 580 days – similar to 1433.5 days) (Page 17. contains all equations of No. (2))

Gerges Francis Tawadrous/                                              7
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com            +201022532292

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## References

## Data Tables

## The Mass Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun | inner | Oute | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.33 | 4.87 | 5.97 | 0.073 | 0.642 | 1898 | 568 | 86.8 | 102 | 0.0131 | 1988500 | 11.885 | 2654.8 | 2666.7 |
| Mercury | 1 | 14.7575 | 18.0909 | 0.2212 | 1.945 | 5751 | 1721.212 | 263.03003 | 309.0909 | 0.03969 | 6025757.5 | 36.01 | 8044.8 | 8080.9 |
| Venus | 0.0677 | 1 | 1.225 | 0.0149 | 0.13182 | 389.73 | 116.632 | 17.8234 | 20.9445 | 0.002689 | 408316.2 | 2.44 | 545.13 | 547.57 |
| Earth | 0.055 | 0.815 | 1 | 0.0122 | 0.107 | 318 | 95.1 | 14.53 | 17.085 | 0.0021 | 333082 | 1.99 | 444.7 | 446.68 |
| Moon | 4.52 | 66.71 | 81.78 | 1 | 8.794 | 26000 | 7780.82 | 1189.041 | 1397.26 | 0.17945 | 27239726 | 162.8 | 36367 | 36530 |
| Mars | 0.514 | 7.58 | 9.299 | 0.1137 | 1 | 2956.38 | 884.7352 | 1352.02 | 158.878 | 0.020404 | 3097352 | 18.512 | 4135.2 | 4153.7 |
| Jupiter | 0.000173 | 0.00256 | 0.003145 | 0.00003846 | 0.00033825 | 1 | 0.299 | 0.04573 | 0.05374 | $6.902 * *10^{-6}$ | 1047.68 | 0.00626 | 1.3987 | 1.405 |
| Saturn | 0.000580 | 0.00857 | 0.0105 | 0.00012852 | 0.00113028 | 3.341 | 1 | 0.152816 | 0.17957 | $0.23063 * *10^{-4}$ | 3500.88 | 0.020924 | 4.6739 | 4.694 |
| Uranus | 0.00380 | 0.05610 | 0.06877 | 0.00084101 | 0.0073963 | 21.866 | 6.543 | 1 | 1.175115 | $0.150921 *10^{-3}$ | 22908.98 | 0.13692 | 30.585 | 30.722 |
| Neptune | 0.003235 | 0.04774 | 0.05852 | 0.000715686 | 0.00629411 | 18.6078 | 5.56862 | 0.85098 | 1 | $0.128431 * *10^{-3}$ | 19495 | 0.11651 | 26.027 | 26.144 |
| Pluto | 25.19 | 371.75 | 455.7 | 5.5725 | 49.0076 | 144885 | 43358.77 | 6625.954 | 7786 | 1 | 151793893.1 | 907.251 | 202656.4 | 203564 |
| The Sun | $0.1659*10^{-6}$ | $2.449*10^{-6}$ | $3.003*10^{-6}$ | $0.036711*10^{-6}$ | $0.3228*10^{-6}$ | $0.9544*10^{-3}$ | $0.2856*10^{-3}$ | $0.04365 * *10^{-3}$ | $0.051294 *10^{-3}$ | $6.587*10^{-9}$ | 1 | $5.97*10^{-6}$ | .001335 | 0.001341 |
| Inner | 0.02776 | 0.40976 | 0.5023 | 0.00614 | 0.05401 | 159.7 | 47.791 | 7.30332 | 8.5822 | 0.001102 | 167311.73 | 1 | 223.3 | 224.3 |
| Outer | 0.000124 | 0.00183 | 0.0022248 | 0.0000274 | 0.0002418 | 0.7149 | 0.213952 | 0.03269 | 0.03842 | 0.0000049344 | 749.020 | 0.00447 | 1 | 1.00448 |
| Total | 0.000123 | 0.00182 | 0.0022238 | 0.0000**2737** | 0.00024207 | 0.7117 | 0.21299 | 0.03254 | 0.03824 | 0.0000049124 | 745.67 | 0.0044456 | 0.9955 | 1 |

Gerges Francis Tawadrous/                                          8

2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..

mrwaheid1@yahoo.com      mrwaheid@gmail.com           +201022532292

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# The Diameter Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun | Inner | Outer | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4879 | 12104 | 12756 | 3475 | 6792 | 142984 | 120536 | 51118 | 49528 | 2390 | 1392000 | 40006 | 366556 | 406562 |
| Mercury | 1 | 2.480 | 2.614 | 0.712 | 1.392 | 29.306 | 24.70 | 10.477 | 10.151 | .48 | 285.3 | 8.199 | 75.12 | 83.32 |
| Venus | 0.403 | 1 | 1.0538 | 0.287 | 0.561 | 11.812 | 9.958 | 4.2232 | 4.091 | .197 | 115.00 | 3.351 | 30.28 | 33.589 |
| Earth | 0.3824 | 0.9488 | 1 | 0.2724 | 0.532 | 11.209 | 9.449 | 4.007 | 3.882 | .187 | 109.12 | Pi | 28.735 | 31.87 |
| Moon | 1.404 | 3.483 | 3.67 | 1 | 1.954 | 41.44 | 34.68 | 14.71 | 14.252 | .351 | 400 | 11.51 | 105.48 | 116.99 |
| Mars | 0.7183 | 1.782 | 1.878 | 0.5116 | 1 | 21.051 | 17.746 | 7.526 | 14.252 | .687 | 204.94 | 5.890 | 53.968 | 59.858 |
| Jupiter | 0.0341 | 0.0846 | 0.0892 | 0.0243 | .0475 | 1 | 0.843 | 0.3575 | 0.34638 | .0167 | 9.7353 | 0.279 | 2.56 | 2.843 |
| Saturn | 0.04047 | 0.1004 | 0.1058 | 0.0288 | .0563 | 1.1862 | 1 | 0.424 | 0.41089 | .01982 | 11.548 | 0.331 | 3.041 | 3.372 |
| Uranus | 0.0954 | 0.2367 | 0.2495 | 0.0679 | .1328 | 2.797 | 2.3579 | 1 | 0.96889 | .04675 | 27.2311 | 0.782 | 7.170 | 7.953 |
| Neptune | 0.0985 | 0.2443 | 0.2575 | 0.0701 | .1371 | 2.8869 | 2.4336 | 1.0321 | 1 | .04825 | 28.105 | 0.807 | 7.400 | 8.208 |
| Pluto | 2.041 | 5.064 | 5.337 | 1.4539 | 2.841 | 59.825 | 50.433 | 21.388 | 20.77 | 1 | 582.4 | 16.73 | 153.3 | 170.1 |
| The Sun | 0.003505 | 0.008695 | 0.00916 | 1/400 | 4.87/ (1000) | 0.1027 | 0.0865 | 0.0367 | 0.03558 | .00171 | 1 | .0287 | 0.2633 | 0.292 |
| Inner | 0.12195 | 0.30255 | Pi | 0.0868 | 0.1697 | 3.574 | 3.0129 | 1.277 | 1.238 | .05974 | 34.79 | 1 | 9.162 | 10.162 |
| Outer | 0.01331 | 0.03302 | 0.0347 | .00948 | **0.01852** | 0.3900 | 0.3288 | 0.1394 | 0.1351 | .00652 | 3.7975 | 0.109 | 1 | 1.1091 |
| Total | 0.01200 | 0.02977 | 0.03137 | .00854 | 0.1697 | 0.3516 | 0.2964 | 0.1257 | 0.12182 | .00587 | 3.423 | .0984 | 0.901 | 1 |

Gerges Francis Tawadrous/
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com     +201022532292

**IN THE ALMIGHTY GOD NAME**
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**I do this research**

# The Distance Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | Sun | Inner | Outer | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 57.9 | 108.2 | 149.6 |  | 227.9 | 778.6 | 1433.5 | 2872.5 | 4495.1 | 5870 |  | 543.6 | 15449.7 | 15993.3 |
| Mercury | 1 | 1.8687 | 2.583 | 2.576 | 3.936 | 13.75 | 24.75 | 49.611 | 77.63 | 101.38 |  | 9.38 | 266.8 | 276.2 |
| Venus | 0.5351 | 1 | 1.3826 | 1.378 | 2.1062 | 7.195 | 13.248 | 26.548 | 41.544 | 54.251 |  | 5.024 | 142.7 | 147.8 |
| Earth | 0.387 | 0.72326 | 1 | 1 | 1.5233 | 5.20 | 9.58 | 19.201 | 30.047 | 39.237 |  | 3.633 | 103.2 | 106.9 |
| Moon |  | 0.7252 |  | 1 |  | 5.2 |  |  |  |  |  |  |  |  |
| Mars | 0.254 | 0.47476 | 0.6564 | 0.6546 | 1 | 3.42 | 6.29 | 12.604 | 19.724 | 25.7 |  | 2.385 | 67.79 | 70.17 |
| Jupiter | 0.0743 | 0.13896 | 0.19213 |  | 0.2927 | 1 | 1.8411 | 3.689 | 5.773 | 7.539 |  | 0.698 | 19.8 | 20.541 |
| Saturn | 0.04039 | 0.07547 | 0.10435 |  | 0.1589 | 0.54314 | 1 | 2 | 3.1357 | 4.0948 |  | 0.379 | 10.77 | 11.156 |
| Uranus | 0.020156 | 0.037667 | 0.052 |  | 0.07933 | 0.271 | 0.499 | 1 | 1.5648 | 2.04351 |  | 0.189 | 5.378 | 5.567 |
| Neptune | 0.1288 | 0.02407 | 0.03328 |  | 0.05069 | 0.1732 | 0.3189 | 0.63902 | 1 | 1.3058 |  | 0.120 | 3.43 | 3.557 |
| Pluto | 0.00986 | 0.018432 | 0.02548 |  | 0.0388 | 0.13264 | 0.2442 | 0.4893 | 0.765 | 1 |  | 0.092 | 2.631 | 2.724 |
| The Sun |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| Inner | 0.1065 | 0.199 | 0.275 |  | 0.4192 | 1.432 | 2.63 | 5.28 | 8.269 | 10.798 |  | 1 | 28.4 | 29.42 |
| Outer | 0.003747 | 0.00700 | 0.00968 |  | 0.01475 | 0.05039 | 0.0927 | 0.1859 | 0.290 | 0.3799 |  | 0.03518 | 1 | 1.0351 |
| Total | 0.003620 | 0.006765 | 0.009353 |  | 0.01424 | 0.0486 | 0.0896 | 0.179 | 0.281 | 0.367 |  | 0.0339 | 0.966 | 1 |

Gerges Francis Tawadrous/     10

2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..

mrwaheid1@yahoo.com     mrwaheid@gmail.com     +201022532292

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# The Orbital Period Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1 | 2.553 | 4.1505 | 0.3102 | 7.8068 | 49.215 | 122.125 | 347.6 | 679.54 | 1029.4 | |
| Venus | 0.3916 | 1 | 1.6255 | 0.12149 | 3.0574 | 19.274 | 47.828 | 136.132 | 266.132 | 403.15 | |
| Earth | 0.2409 | 0.61519 | 1 | 0.074743 | 1.8809 | 11.857 | 29.423 | 83.7481 | 163.723 | 248.06 | |
| Moon | 3.223 | 8.23 | 13.379 | 1 | 25.164 | 158.64 | 393.663 | 1120.47 | 2190.476 | 3318 | |
| Mars | 0.1280 | 0.32707 | 0.531659 | 0.039737 | 1 | 6.3042 | 15.6433 | 44.5254 | 87.045 | 131.86 | |
| Jupiter | 0.02031 | 0.051881 | 0.08433 | 0.0063033 | 0.1586 | 1 | 2.4814 | 7.0628 | 13.807 | 20.916 | |
| Saturn | 0.00818 | 0.0209081 | 0.033986 | 0.002540 | 0.063924 | 0.40299 | 1 | 2.846 | 5.5643 | 8.429 | |
| Uranus | 0.002876 | 0.007345 | 0.0119405 | 0.0000892477 | 0.02245 | 0.141586 | 0.35133 | 1 | 1.9549 | 2.961 | |
| Neptune | 0.0014715 | 0.003757 | 0.0061078 | 0.0004565 | 0.011488 | 0.072424 | 0.17971 | 0.5115 | 1 | 1.5148 | |
| Pluto | 0.00097143 | 0.002480 | 0.00403199 | 0.000030136 | 0.007583 | 0.047809 | 0.118636 | 0.3376 | 0.66013 | 1 | |
| The Sun | | | | | | | | | | | |

2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com     mrwaheid@gmail.com            +201022532292

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# The Orbital Inclination Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun |
|--------|---------|-------|-------|------|------|---------|--------|--------|---------|-------|---------|
| Mercury | 1 | 0.485 | - | 0.7285 | 0.2714 | 0.1857 | 0.3571 | 0.1142 | 0.2571 | 2.457 | |
| Venus | 2.0588 | 1 | - | 1.5 | 0.5588 | 0.3823 | 0.7352 | 0.2352 | 0.529 | 5.0588 | |
| Earth | - | - | - | - | - | - | - | - | - | - | - |
| Moon | 1.37 | 0.666 | - | 1 | 0.372 | 0.254 | 0.4901 | 0.1568 | 0.3529 | 3.37 | |
| Mars | 3.684 | 1.789 | - | 2.684 | 1 | 0.684 | 1.31 | 0.4210 | 0.947 | 9.052 | |
| Jupiter | 5.384 | 5.615 | - | 3.923 | 1.461 | 1 | 1.923 | 0.6153 | 1.3846 | 13.23 | |
| Saturn | 2.8 | 1.36 | - | 2.04 | 0.76 | 0.52 | 1 | 0.32 | 0.72 | 6.88 | |
| Uranus | 8.75 | 4.25 | - | 6.375 | 2.375 | 1.625 | 3.125 | 1 | 2.25 | 21.3 | |
| Neptune | 3.88 | 1.888 | - | 2.833 | 1.055 | 0.722 | 1.388 | 0.444 | 1 | 9.55 | |
| Pluto | 0.4069 | 0.1976 | - | 0.2965 | 0.1104 | 0.0755 | 0.14534 | 0.0465 | 0.10465 | 1 | |
| The Sun | | | - | | | | | | | | |

Gerges Francis Tawadrous/                                        12
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com      mrwaheid@gmail.com            +201022532292

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# Axial Tilt Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun |
|--------|---------|-------|-------|------|------|---------|--------|--------|---------|-------|---------|
| Mercury | - | - | - | - | - | - | - | - | - | - | |
| Venus | - | 1 | 0.13213 | 0.03776 | 0.1420518 | 0.017474 | 0.15050 | 0.55129 | 0.1595264 | 0.69052 | |
| Earth | - | 7.568 | 1 | 0.28583 | 1.0750853 | 0.132252 | 1.13907 | 4.17235 | 1.20733 | 5.2261 | |
| Moon | - | 26.477 | 3.498 | 1 | 3.7611 | 0.46268 | 3.9850 | 14.59701 | 4.22388 | 18.28358 | |
| Mars | - | 7.0396 | 0.93015 | 0.265873 | 1 | 0.1230158 | 1.059523 | 3.88095 | 1.1230158 | 4.86111 | |
| Jupiter | - | 57.2258 | 7.56129 | 2.16129 | 8.1290 | 1 | 8.6129 | 31.548 | 9.1290 | 39.5161 | |
| Saturn | - | 6.64419 | 0.877 | 0.250936 | 0.94382 | 0.117424 | 1 | 3.6629 | 1.059925 | 4.58801 | |
| Uranus | - | 1.81 | 0.23967 | 0.0685 | 0.25766 | 0.03169 | 0.2730061 | 1 | 0.289366 | 1.2525 | |
| Neptune | - | 6.26855 | 0.828 | 0.236749 | 0.89045 | 0.109540 | 0.943462 | 3.455830 | 1 | 4.328621 | |
| Pluto | - | 1.448 | 0.191 | 0.0546938 | 0.20571 | 0.0253061 | 0.21795 | 0.798367 | 0.23102 | 1 | |
| The Sun | | | | | | | | | | | |

Gerges Francis Tawadrous/                                    13
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com      mrwaheid@gmail.com            +201022532292

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## The Planet interval distances Rate

| Planet | Sun/ Mercury | Mer/ Venus | Venu/ Earth | Venus /Moon | Earth/ Mars | Mars /Jupiter | Jupiter / Saturn | Saturn/ Uranus | Uranus /Neptune | Neptune /Pluto | The Sun |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 57.9 | 50.3 | 41.4 | 41 | 78.3 | 550.7 | 654.9 | 1439 | 1622.6 | 1374.9 | |
| Sun /Mercury | 1 | 0.8687 | 0.7150 | | 1.352 | 9.511 | 11.310 | 24.853 | 28.0241 | 23.746 | |
| Mercury / Venus | 1.151 | 1 | 0.82306 | | 1.55666 | 10.9483 | 13.019 | 28.6083 | 32.25844 | 27.33 | |
| Venus/ Earth | 1.39855 | 1.214975 | 1 | | 1.891 | 13.3019 | 15.8188 | 34.7584 | 39.1932 | 33.21 | |
| Venus/ Moon | 1.41219 | 1.2268 | 1.009756 | | 1.909 | 13.43170 | 15.9731 | 35.0975 | 39.5756 | 33.534 | |
| Earth/ Mars | 0.73946 | 0.64240 | 0.528735 | | 1 | 7.0332 | 8.36398 | 18.3780 | 20.72286 | 17.559 | |
| Mars/ Jupiter | 0.105138 | 0.091338 | 0.075177 | | 0.1421826 | 1 | 1.189213 | 2.6130 | 2.94643 | 2.4966 | |
| Jupiter/ Saturn | 0.08841 | 0.076805 | 0.06321 | | 0.119560 | 0.840891 | 1 | 2.19728 | 2.4776 | 2.0994 | |
| Saturn/ Uranus | 0.0402362 | 0.034954 | 0.028769 | | 0.054412 | 0.382696 | 0.4551 | 1 | 1.127588 | 0.955455 | |
| Uranus /Neptune | 0.035683 | 0.030999 | 0.025514 | | 0.048255 | 0.39939 | 0.403611 | 0.88684 | 1 | 0.84734 | |
| Neptune/ Pluto | 0.042112 | 0.03658 | 0.0301112 | | 0.056949 | 0.400538 | 0.476325 | 1.0466215 | 1.180158 | 1 | |
| The Sun | | | | | | | | | | | |

Gerges Francis Tawadrous/                                                    14
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com      mrwaheid@gmail.com                +201022532292

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## The Planet Day Length

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | The Sun |
|--------|---------|-------|-------|------|------|---------|--------|--------|---------|-------|---------|
| In hours | 4222.6 | 2802 | 24 | 708.7 | 24.7 | 9.9 | 10.7 | 17.2 | 16.1 | 153.3 | |
| Mercury | 1 | 0.4930 | 0.005683 | 0.1678 | 0.005849 | 0.002344 | 0.002533 | 0.004073 | 0.003812 | 0.0363 | |
| Venus | 1.50699 | 1 | 0.008565 | 0.25292 | 0.008815 | 0.0035331 | 0.003818 | 0.006138 | 0.005745 | 0.05471 | |
| Earth | 175.9416 | 86.75 | 1 | 29.529 | 1.0291 | 0.4125 | 0.4458 | 0.7166 | 0.6708 | 6.3875 | |
| Moon | 5.958233 | 2.9377 | 0.033864 | 1 | 0.034852 | 0.013969 | 0.015098 | 0.02426 | 0.02271 | 0.21631 | |
| Mars | 170.955 | 84.291 | 0.9716 | 28.6923 | 1 | 0.40088 | 0.4331 | 0.69635 | 0.6518 | 6.2064 | |
| Jupiter | 426.5252 | 210.30 | 2.4242 | 71.58585 | 2.4949 | 1 | 1.0808 | 1.7373 | 1.626 | 15.4848 | |
| Saturn | 394.63551 | 194.5794 | 2.2429 | 66.2336 | 2.3084 | 0.92523 | 1 | 1.60747 | 1.5046 | 14.327 | |
| Uranus | 245.5 | 121.046 | 1.39534 | 41.2034 | 1.4360 | 0.57558 | 0.62209 | 1 | 0.9360 | 8.9127 | |
| Neptune | 262.2732 | 129.316 | 1.49068 | 44.0186 | 1.534161 | 0.6149 | 0.6645 | 1.0683 | 1 | 9.521 | |
| Pluto | 27.544 | 13.581 | 0.15655 | 4.62296 | 0.16112 | 0.06457 | 0.06979 | 0.1121 | 0.10502 | 1 | |
| The Sun | | | | | | | | | | | |

Gerges Francis Tawadrous/                                    15

2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..

mrwaheid1@yahoo.com     mrwaheid@gmail.com          +201022532292

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## Planet Velocity Rate

| Planet | Mercury | Venus | Earth | Moon | Mars | Jupiter | Saturn | Uranus | Neptune | Pluto | Sun | inner | Oute | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 47.4 | 35 | 29.8 | 29.8 | 24.1 | 13.1 | 9.7 | 6.8 | 5.4 | 4.7 | | 166.1 | 39.7 | 205.8 |
| **Mercury** | 1 | 0.7383 | 0.6286 | | 0.508 | 0.2763 | 0.2046 | 0.1434 | 0.1139 | 0.099 | | | | 4.341 |
| **Venus** | 1.354 | 1 | 0.8514 | | 0.6885 | 0.3742 | 0.277 | 0.1942 | 0.15428 | 0.134 | | | | 5.88 |
| **Earth** | 1.59 | 1.174 | 1 | | 0.8087 | 0.4395 | 0.3255 | 0.228 | 0.181 | 0.157 | | | | 6.90 |
| **Moon** | 1.59 | | 1 | | | | | | | | | | | |
| **Mars** | 1.966 | 1.4522 | 1.2365 | | 1 | 0.5435 | 0.4024 | 0.2821 | 0.2240 | 0.195 | | | | 8.53 |
| **Jupiter** | 3.618 | 2.671 | 2.2748 | | 1.839 | 1 | 0.74 | 0.5190 | 0.4122 | 0.358 | | | | 15.7 |
| **Saturn** | 4.88 | 3.608 | 3.072 | | 2.484 | 1.3505 | 1 | 0.701 | 0.5567 | 0.484 | | | | 21.21 |
| **Uranus** | 6.97 | 5.147 | 4.382 | | 3.54 | 1.926 | 1.426 | 1 | 0.794 | 0.691 | | | | 30.26 |
| **Neptune** | 8.77 | 6.48 | 5.518 | | 4.4629 | 2.425 | 1.796 | 1.259 | 1 | 0.870 | | | | 38.1 |
| **Pluto** | 10.085 | 7.44 | 6.340 | | 5.127 | 2.787 | 2.0638 | 1.4468 | 1.1489 | 1 | | | | 43.78 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Gerges Francis Tawadrous/                                      16
2nd Course student – physics Faculty – People's Friendship University – Moscow –Russia..
mrwaheid1@yahoo.com      mrwaheid@gmail.com            +201022532292