The Moon Orbital Motion
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Abstract
Why Earth daily motion 2.58 mkm = The moon orbital circumference at apogee radius r=0.406 mkm (Apogee radius is the longest distance between the Earth and Moon)?
Conclusion:
The Moon orbital motion depends on relativistic effects are found in the moon orbit.

1- Introduction
Paper Main Hypothesis:
The rate 1.0725 is found by lorentz relativities effects

$$\frac{\text{Apogee Orbital Circumfere nce (r} = 0.406\,\text{mkm)} = 2.58\,\text{mkm}}{\text{Moon Orbital Circumfere nce (r} = 0.384\,\text{mkm)} = 2.41\,\text{mkm}} = 1.0725$$

The Hypothesis Explanation:

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

The previous equation explain the hypothesis

28.3 degrees (Neptune axial tilt) is the main value which is contracted by lorentz effect (1.0725) to produce 26.7 deg (Saturn axial tilt) which also is contracted again to produce 25.2 deg. (Mars axial tilt) and then contracted again to produce 25.3 deg. (Earth axial tilt) so these 4 values are one value but the difference is found by relativistic effects
(The prove of this rate 1.0725 will be discussed in point no. 3)

2- The moon orbital motion
- The moon moves 2.58 mkm daily = Earth motion daily (otherwise they will be separated from each other)
- If there's no relativistic effects in the solar system, the moon should be seen as a bright stationary point in the sky because Earth and Moon move by the same velocity.

But

- Because of the relativistic effects this value (2.58 mkm) will be contracted with the rate 1.0725 to produce the value 2.41 mkm (Note please/ The length contraction rate 1.0725 we have discussed clearly in my previous paper)
- So the moon daily motion =2.58 mkm but this value is seen =2.41mkm (because of lorentz length contraction phenomenon)
- The difference between both = 0.17 mkm which causes **The Moon Daily Displacement** (0.17 mkm = 2 x 88000km)
- Why the difference 0.17 mkm = **2** x moon daily displacement 88000km? may that occur because of the motions opposite directions.

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IN THE ALMIGHTY GOD NAME
Through the Mother of God mediation
I do this research

2- The rate 1.0725 (proves)
2-1 How the rate 1.0725 is found?

V=0.99c (where c is light velocity=0.3mkm/sec) causes lorentz length contraction effect with rate =7.1

(7.1/100 + 1) =1.071 which is very close to 1.0725

I suppose that, the rate 1.0725 is found because of lorentz length contraction effect. But not with direct effect. In fact there's some complex system uses this rate 7.1 to produce the final one 1.0725… any why the rate 1.0725 is found based on lorentz length contraction effect but with complex process….

2-2 The rate 1.0725 proves
The rate is found widely in the solar group geometry for example

I – Data (Distances)

1st- $\dfrac{\text{Earth Daily Motion } 2.58\,\text{mkm}}{\text{Moon Orbital Circumfere nce } 2.41\,\text{mkm}} = 1.0725$ (No Error)

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

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

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

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

6th- $\dfrac{\text{Jupiter Orbital Circumfere nce } (4894\,\text{mkm})}{\text{Neptune Orbital Distance } (4495.1\,\text{mkm})} = 1.0725$ (Error1.5 %)

7th- $\dfrac{\text{Saturn Orbital Distance } (1433.5\,\text{mkm})}{\text{Sarurn Venus Distance } (1325.3\,\text{mkm})} = 1.0725$ (Error 0.8%)

8th- $\dfrac{\text{Saturn Earth Distance } (1284\,\text{mkm})}{\text{Sarurn Mars Distance } (1205.6\,\text{mkm})} = 1.0725$ (Error 0.7%)

9th- $\dfrac{\text{Uranus Orbital Distance } (2872.5\,\text{mkm})}{\text{Uranus Mars Distance } (2644\,\text{mkm})} = 1.0725$ (Error 0.7%)

This rate 1.0725 we have discussed deeply in my previous paper

Solar Group Geometrical Structure
http://vixra.org/abs/1805.0081

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This idea is discussed in more details in my previous papers

Research paper "The Moon Motion is A Relativistic Motion"
https://www.academia.edu/s/c7a93d2219/the-moon-motion-is-a-relativistic-motiondoc
or
http://vixra.org/abs/1812.0132
or
https://www.slideshare.net/Gergesfrancis/the-moon-motion-is-a-relativistic-motion

Research paper "The Moon Orbit Analysis"
http://vixra.org/abs/1811.0422
or
https://www.academia.edu/s/45a61dba6c/the-moon-orbit-analysis
or
https://www.slideshare.net/Gergesfrancis/the-moon-orbit-analysis

The Author other Papers
Pluto Velocity Analysis
http://vixra.org/abs/1812.0160

The Moon Motion is A Relativistic Motion
http://vixra.org/abs/1812.0132

Why Energy has Different Forms?
http://vixra.org/abs/1812.0116

"Neptune Data shows The Solar Group Geometry"
http://vixra.org/abs/1811.0178

Solar Planet Motion Trajectory Is A Square And Not An Ellipse
http://vixra.org/abs/1811.0135

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