

Re-Defining ' Gravity ' & Conceptualizing A ' Gravity ' Generator !

The future, and the inevitable astronomical next step, in humans' space exploration is to come up with concepts in the design and construction of independent ' gravity ' generators (It would definitely be perilous to travel among the galaxies in gigantic spinning ferry-wheels in order to make use of centrifugal force as substitute for ' gravity ').

I believe that I have come up with those concepts, but first of all, allow me to point out my personal definition on what ' gravity ' is ought to be !

My definition for ' gravity ' is actually the ' Congregating-Action-Force ' (CAF) coming out of those most basic and fundamental constituents of sub-neutrino particles that I had previously called them " PETs " (Pure Energy Things) from the ' Umbilical Universes ' that I had described in my FQXi Essay Competition that were published on May 10th, 2013 (Title : The Coming and Going of the Galactic Contents).

My concepts in the design and construction of the first working prototype of an Independent CAF Generator (ICG) are heavily based on those PETs' fundamentals to take hold and a completely new era in humans space exploration would begin in earnest.

A. Astronomical Discrepancies That is Beyond Explanation by ' Gravity ' :

1. The outer $\frac{1}{3}$ elliptic arm :

Those solar systems on the outer $\frac{1}{3}$ elliptic arm of the Galaxy should have been flung off, but haven't, why ?

2. Sun's Sucking Power :

Consider an astronaut (Mr. A) travelling at high speed in orbital space station and should Mr. A ventures outside and floating in open space, meaning that Earth's 'gravitational-pull' (G-P) is not strong enough to 'suck' the high speed Mr. A down towards Earth.

If some moments later, the space station and the outside floating Mr. A should have moved into position that is between Earth and the Sun, why is that the Sun's G-P would not be strong enough to pulling the free-floating space station and/or Mr. A into higher orbit, or worse, into deep space ?

(Supposedly, G-P would act equally on mass of any quantity, right ?)

3. Regarding Earth's oval-shaped orbit around the Sun :

If the Sun's G-P is not strong enough to pull-in Earth when it's orbit is nearest to the Sun, why then that the Sun's G-P is powerful enough to pull-in and turning around Earth in its farthest point on its oval orbit, forcing Earth to return to its closer oval-shaped orbit around the Sun ?

On the other hand, if the Sun's G-P is strong enough to rein in Earth at its farthest oval orbital position, then why is that the Sun's G-P would not be strong enough to 'suck in' Earth when Earth is at its nearest orbital position to the Sun ?

4. The ratios of mass and escape-velocity of planets :

Let's just consider four planets, two inner planets (Earth and Mars) and two outer planets (Jupiter and Saturn) :

Planets & Distance From the Sun	Mass & % Difference	Escape-velocity & % Difference (Assuming atmospheric resistance is only at a minimal)
1. Earth ; 1 AU	1 Earth Unit (EU)	11.186 km/s
2. Mars : 1.5 AUs	0.107 EU (10.70 % of Earth's)	5.030 km/s (44.96 % of Earth's)
3. Jupiter : 5.2 AUs	318 EUs (31,800.00 % of Earth's) (297,196.00 % of Mars')	59.5 km/s (531.91 % of Earth's) (1.183.00 % of Mars')
4. Saturn : 9.6 AUs	95 EUs	35.50 km/s

(9,500.00 % of Earth's)	(317.36 % of Earth's)
(88,785.00 % of Mars')	(705.76 % of Mars')
(29.87 % of Jupiter's)	(59.66 % of Jupiter's)

Observation & Discrepancy :

a. From the above tabulated statistics, it is apparent that the bigger the mass, the faster velocity is needed to escape from the planet's G-P .

b. However, the percentage difference of the mass-to-escape-velocity ratios among those four planets varied a lot, e.g., Jupiter's mass-to-escape-velocity as compared with Earth's, is showing a huge difference of 31,800 % (mass) to 532 % (escape-velocity) .

Similar situation with other planets' ratios are self-explanatory ; what is the rationale in these discrepancies ?

5. Those disproportionate ratios of planets' average-orbital-speed (AOS) versus their distance from the Sun :

Let's again consider those same four planets :

Planets	Distance from the Sun in AUs and % Difference	Average-Orbital-Speed (AOS) and % Difference
1. Earth :	1 AU	29.78 km/s
2. Mars :	1.5 AUs (150 % of Earth's)	24.08 km/s (80.85 % of Earth's)
3. Jupiter :	5.20 AUs (520 % of Earth's) (347 % of Mars')	13.07 km/s (43.88 % of Earth's) (54.27 % of Mars')
4. Saturn :	9.60 AUs (960 % of Earth's) (640 % of Mars.) (188 % of Jupiter's)	9.69 km/s (32.53 % of Earth's) (40.24 % of Mars') (74.13 % of Jupiter's)

Observation & Discrepancy :

a. That the AOS decreases as the planets' orbits are farther away from the Sun.

b. However, the ratios of planets' distances from the Sun versus their decrease in AOS, are significantly out of proportion.

All pulling/attracting forces between two or more objects would invariably decrease as the distance separating them increases ---- assuming that the G-P forces coming from its producer/generator is a constant. And unless interrupted or injected with other forces, those pulling/attracting forces should decrease in an arithmetical and predictable fashion, right ?

Taking the cue from the Mars' numbers of AUs that is 150% of Earth's and AOS that is 81 % of Earth's :

AUs from Earth

150 % - 100 %
= 50 % difference

AOS' Decreased By

100 % - 81 %
= 19 % difference

Using this scale, lets look at Jupiter :

AUs from Earth

520 % - 100 %
= 420 % difference

AOS' Decreased By

100 % - 43.88 %
= 56.12 % difference

However, the decrease in the Sun's G-P on Jupiter should be :

AUs of Jupiter comparing with Mars is 347 % more than Mars. And since the G-P acting on Mars is only 81 % of Earth's, therefore, on Jupiter, the amount of G-P acting on it should be :

$81 \% / 347 \% = 23 \%$ of that on Mars.

The Mars' AOS in absolute term is 24.08 km/s and Mars' didn't fly off or moved closer in its orbit around the Sun --- in other words, the Sun's G-P acting on Mars is just right for Mars' current AOS.

If Mars' AOS is slower, its orbit would be pulled ' inwards ' into a tighter orbit around the Sun.

If Mars' AOS is faster, its orbit would either move into a broader orbit around the Sun, or tangent off and fly out of the solar system, for the Sun's G-P would not be strong enough to withholding Mars into a steady orbit by dragging and controlling Mars' AOS into a slower pace.

So, applying the same logic, the Sun's G-P acting on Jupiter's AOS should be equivalent to :

$$\begin{aligned} &= 24.08 \text{ km/s (AOS of Mars) X 23 \%} \\ &= 5.53 \text{ km/s of AOS for Jupiter, supposedly.} \end{aligned}$$

In comparison, the current AOS of Jupiter's 13.07 km/s is still a far cry from the arithmetically projected and controllable velocity of 5.53 km/s.

Meaning, the Sun's G-P grip on Jupiter is only good for an AOS of 5.53 km/s. Therefore, Jupiter's current AOS of 13.07 km/s would be too fast for the Sun's G-P and that the Sun's G-P is not strong enough to withholding Jupiter in its current AUs orbit around the Sun ; and Jupiter ought to have flown away long time ago.

So, what is there to explain with this discrepancy ?

B. My New Theories on ' Gravity ' & Discrepancies Explained :

1. Congregating-Action-Force :

I want to introduce the concept that the ' gravity ' as we know it, could be the swamping Congregating-Action-Force (CAF) of those PETs that are the most basic and fundamental component of sub-neutrino particles as I have stated above.

2. Basic Assumption of PETs :

Assuming that those PETs would all want to congregate into as big a swamp of PETs as possible, so that they could build up enough heat/energy force/power for those PETs to breaking

through the partition separating our ' absolute coldness ' universe and their home universe of ' absolute hotness ' and rushing back to home.

Basing on the above assumption, I have to admit that we are missing the understanding on several basic properties, functionalities and modus operandi of those PETs :

a. The ' format ' of their mass, energy level, velocity, action, reaction, etc., are beyond our comprehension and detection.

b. They have ways and means of communication that we do not know of and that we cannot monitor.

c. That they could be living entities that can behave at an intelligent level that are very much beyond our understanding.

3. Why Need to Swamping :

Ever since leaving their ' absolute hotness ' universe, those PETs will always try to orient themselves into the largest possible heat-swamp of PETs convoy needed to be heading home.

Witness that all galaxies are hurdling faster and faster forward, and seemingly heading in one same direction ; for now, that direction is the Great Attractor's Norma Cluster (Abell 3627) .

Therefore, I would argue that all gravitational forces are actually congregating-action-forces (CAFs) of those PETs and that the initiative of ' gravity ' induced attraction/pulling/suction energy is actually those congregating forces displayed by those PETs' need to swamping at heat sources (the hotter the better) in order to be heading home.

4. Swamping to Heat Sources :

Since all PETs would take the initiative to automatically swamping towards as " hot ' an environment as possible, therefore, the ' hotter ' the environment (like the core of Earth, the Sun, Stars, the center of the Galaxy, etc.) , those PETs would be more eager and energetic to congregating at them.

5. Planetary Alignment :

Hopefully that this could also explain why was it that when the Sun and its planets happened to have aligned themselves into a straight line formation, it did not create the huge fluctuation of

individual planet's ' gravitational force ' as were predicted (basing on gravity's should-be performance) .

C. The Proof is in the Pudding :

I have developed the concepts in making/constructing the prototype of an Independent ' Gravity ' Generator (IGG) machine arrays. Or to be more in line with my thinkings, an Independent CAF Generator (ICG) .

I have theorized those raw concepts needed in designing/constructing an ICG machine arrays for meeting the various stages of a full scale R & D project in the design and construction of an ICG prototype unit --- once those concepts have gone through thorough and vigorous scrutiny by relevant experts and professionals.

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