Practical Proof for Gravity to be a Wave of high Frequency through the Vacuum Medium

The Visionary Aspect:

- **Gravity** vibrates **Masses**in it's mechanism of **Attraction**and hence it could not be anyflux like thing, speading through the space to attract Matter.
- **Gravity**vibrates **Masses**in it's mechanism of **Attraction**and hence it could not be adepression due to any falling curvature of the space.

The Missionary Aspect:

- A laboratory experiment of the simplest form is suggested to exhibit how 'Gravity'makes objects of 'Atomic Matter' vibrate conteneously.
- The same experiment is based to derive **Frequency** of the 'Gravitational Wave'.
- Derivation of a mathematical expression for 'Gravitational Static Work-done'.

Background Aspect:

- The practical was done for the first time in Sep 1993 to observe that 'Gravity vibrates masses of Atomic Matter' and the **Frequency** of the vibration too was derived.
- However I was not very confident of my finding and it was kepet unexposed for nearly 15 years in
 my note book and the idia was published in 2009 as an experimental monograph by name pf 'Space
 Dynamics-V2' in my personal websiteknown as "Gamage Consultations". It was also published in the
 famous websites <world mysteries .com> and <science doubts.com> thence in parrelel.
- The edited script of the same subject mater was published in the technical monograph "The Dynamic Model of Atom" in 2017 (refhttp://www.cyrilhtgamage.com/index.php/87-space-dynamic/175-the-dynamic-model-of-atom)

Description:

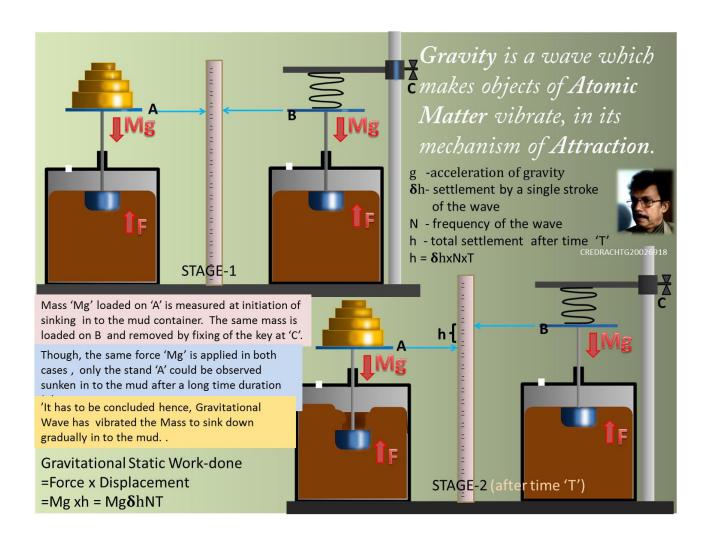


Figure-01 (mud penitration test to exhibit Gravitational Vibration)

Conceptual Deductive Approach:

- A 'Force' alone cannot do any 'Work' unless there is a 'Displacement'.
- A 'Force' with a 'Vibration' can do'Work' with an observable long term gradual 'Displacement'.
- Objects of 'Atomic Mass' do work under 'Gravitational Force' and hence Gravity should vibrate even distant Matter in its 'Mechanism of Attracting'.
- Gravity is a wave operated phinomenon in its mechanism, which spreads high frequent waves through the **VacuumMedium**.

Description:

Pasted the paragrph as directy abstracted from the monograph 'Space Dynamics-V2' (ref. http://www.cyrilhtgamage.com/images/pdf/SpaceDynamics-V2.pdf)

2.12 Expression for Static Work Done

Atomic mass is continuously vibrated by the strokes of the Gravitational Wave and therefore work is done though, the objects are not moving apparently.

As shown in the figure-04 a weight 'm' is kept on a stand. Due to the frequent strokes of the Gravitational Wave, the weight is vibrated about its rest plane. If anything, under a force is vibrated, a work is done and it can be evaluated as follows;

Work = (Force) x (Displacement per a stroke) x Frequency of the Wave.

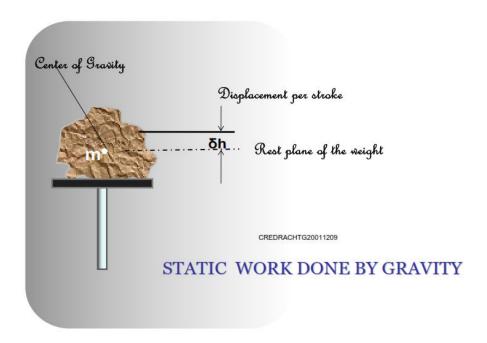


FIGURE-04

Gravitational work done of the mass 'm' per second, as shown in the figure-04,

- = (Gravitational force)x(Displacement per stroke)x(Frequency)
- $= (mG) \times (\delta h) \times (N)$
- = $NmG\delta h$. (Where, N is the frequency of the gravitational wave and G is the acceleration of Gravity.

The object which is vibrated by the wave, exhibits a free motion under gravity and therefore ' δ h' can be calculated by Newton's equation $s = ut + \frac{1}{2} tt^2$.

$$\delta h = (0)t + \frac{1}{2}(G)t^2$$
 (where t is the time taken= time per a single wave stroke)
$$= \frac{1}{2}G\left[\frac{1}{2N}\right]^2$$

$$= \frac{G}{8N^2}$$

Therefore 'Gravitational Static Work Done' by the mass 'm' per second can be calculated as;

$$W_s = NmG\left(\frac{G}{8N^2}\right)$$

$$W_s = \frac{mG^2}{8N}$$
(4)

If frequency of the gravitational wave is known, the hidden static work done by masses under gravity, can be evaluated by means of above relation.

2.2 LABORATORY EXPERIMENT TO DEDUCE FREQUENCY OF THE GRAVITATIONAL WAVE

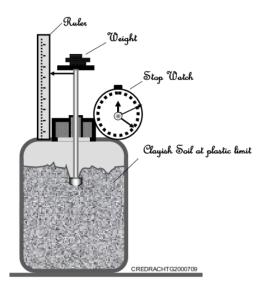


FIGURE-05

• Apparatus: As shown in the figure-05, wetted clayish soil at plastic limit is filled in to the glass utensil. The stand in the apparatus is free to move vertically and an indicator is fixed with it to measure distances of sinking. Also a stop watch is included with the apparatus.

• Procedure:

The stand is loaded by small weights, one by one, until the piston just starts to penetrate in to the soil and that weight is measured.

If the weight of the stand is known the total weight 'M' at the initiation of motion is known. That is the resistance against penetration.

Then the stand is loaded with smaller weights so that the total weight 'm' is lower than 'M' and the sinking with time is measured. On that way readings are recorded for different loads lower than 'M'.

• Notation:

m- load + weigh of the stand (g)

M- total weight at the initiation of apparent motion (g)

T- time duration (seconds) -this is fixed for simplicity

L- depth of sinking (cm)

N- frequency of the gravitational wave (strokes/second)

G- acceleration of gravity (cm/s²)

Calculation:

Work done in sinking against resistance $= MG \times L$

Potential energy drop by sinking

$$= mG \times L$$

The hidden work

$$MGL - mGL = GL(M - m)$$

Gravitational static work done 'Ws' by the weight 'mG' during time 'T', as deduced by the

$$W_s = \frac{mG^2T}{8N}$$

The hidden work is done by the impulsive strokes of the gravitational wave.

i e

$$GL(M-m) = \frac{mG^2T}{8N}$$
$$L = \frac{GT}{8N} \times \frac{m}{(M-m)}$$

'L' and 'm/(M-m)' in above expression, are the only variables and by the gradient 'C' of the plotted graph the constant, 'GT/8N' is given.

$$C = \frac{GT}{8N}$$
$$N = \frac{GT}{8C}$$

•

2.21 Result:

Frequency of the Gravitational wave of Earth, was found as 10^7 per second, by above experiment carried out on 11^{th} Sep 1993 and it is concluded that, the gravitational wave must be of the range of TV & Radar, in accordance with the Electromagnetic Spectrum.

2.22 Discussion:

It is an engineering practice to drop a heavy weight repeatedly to drive a concrete pile in to hard ground and it would not work if the weight is just put on the top of the pile. The impulsive strokes by the weight dropped under gravity, could make the pile penetrate in to soil little by little.

Similarly the weight above the piston of the stand, in above experiment, applied blows repeatedly (due to the gravitational vibration of matter at a frequency of 10⁷ per second) resulting ultimately an apparent penetration in to the soil of which the work done could be measured.

Conclusion:

1. What is proven?

- "Gravity is a phenomenon to attract 'Atomic Matter' by its wave operated Mechanism"
- "Gravity makes even distant Matter vibrate by its high frequent wave strokes"

2. Evidential Observations:

- Buildings are failed gradually by settling due to 'Gravitational Vibration' ultimately appear as
 wide cracks
- A weight lifter is burning much energy to hold the weight up even without moving due to 'Static Work-Done of Gravity'.

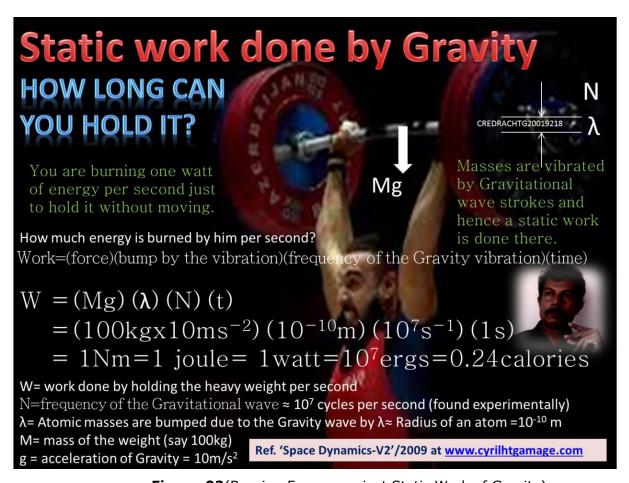


Figure-02(Burning Energy against Static Work of Gravity)

 Mountain fountains are born due to Gravitational Vibration of huge rocky masses resting upon confined aquifers to pump out water up through non return fragments.

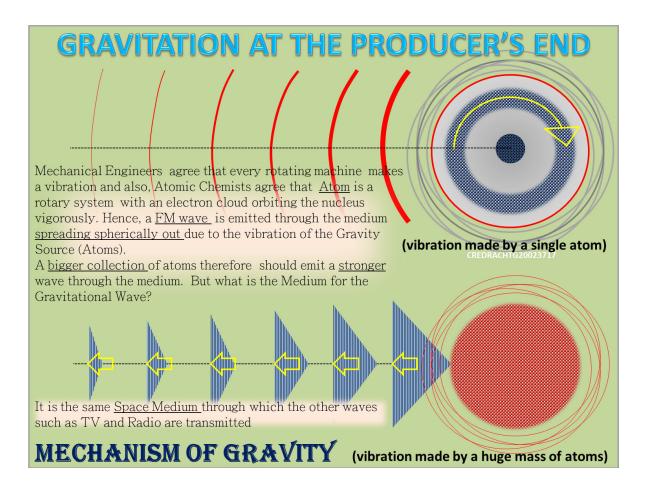


Figure-03 (Theory of Mountain Fountain)

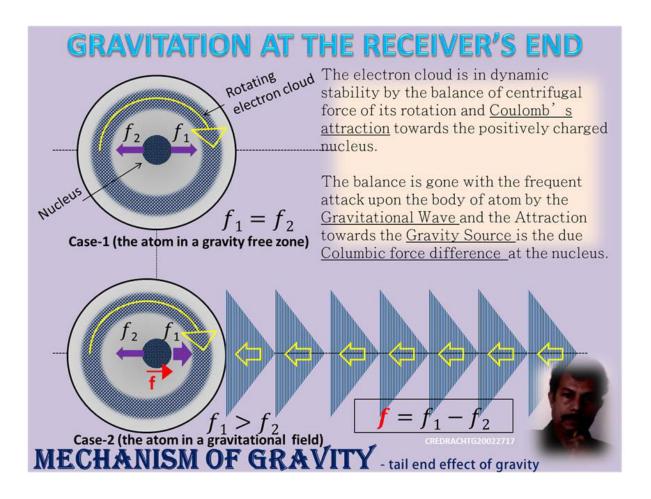
3. What is the Mechanism of Gravity?

Mechanism of Gravity has to be addressed at both ends such as the "Producer's End Mechanism' and 'Receiver's End Mechanism'.

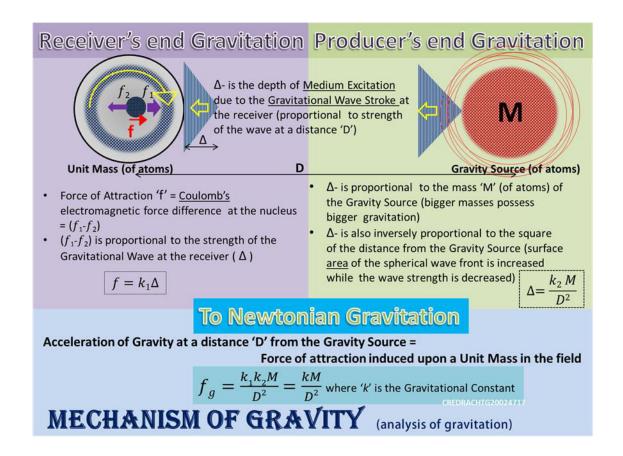
Producer's End Mechanism:



• Receiver's End Mechanism:



Proof for Newtonian Gravity:



4. Gravity and Future

- Artificial Gravity shall certainly be produced in future to be used in a vast range of application.
- Gravity shields shall certainly be invented in future to be used in a vast range of flying application.

Cyril H ThalpeGamage

2018.09.28