

Deciphering the Secrets of UFO Field-Propulsion Technology

Deep Bhattacharjee

Researcher at AATWRI Aerospace and Defense, Electro-Gravitation Simulation and Propulsion Laboratory, Orissa

itsdeep@live.com

(29th Nov. 2020)

Abstract: Detailed analysis of the UFO structure along with Field Propulsion has been provided in this paper subject to Anti-Gravity, Electrohydrodynamics and warp drive with superluminal speeds violating General, Special Relativity and Newton's laws of motion.

Unidentified Flying Objects – Zero-Point Energy (ZPE) – Tesla Coil – Mercury Vortex Engine

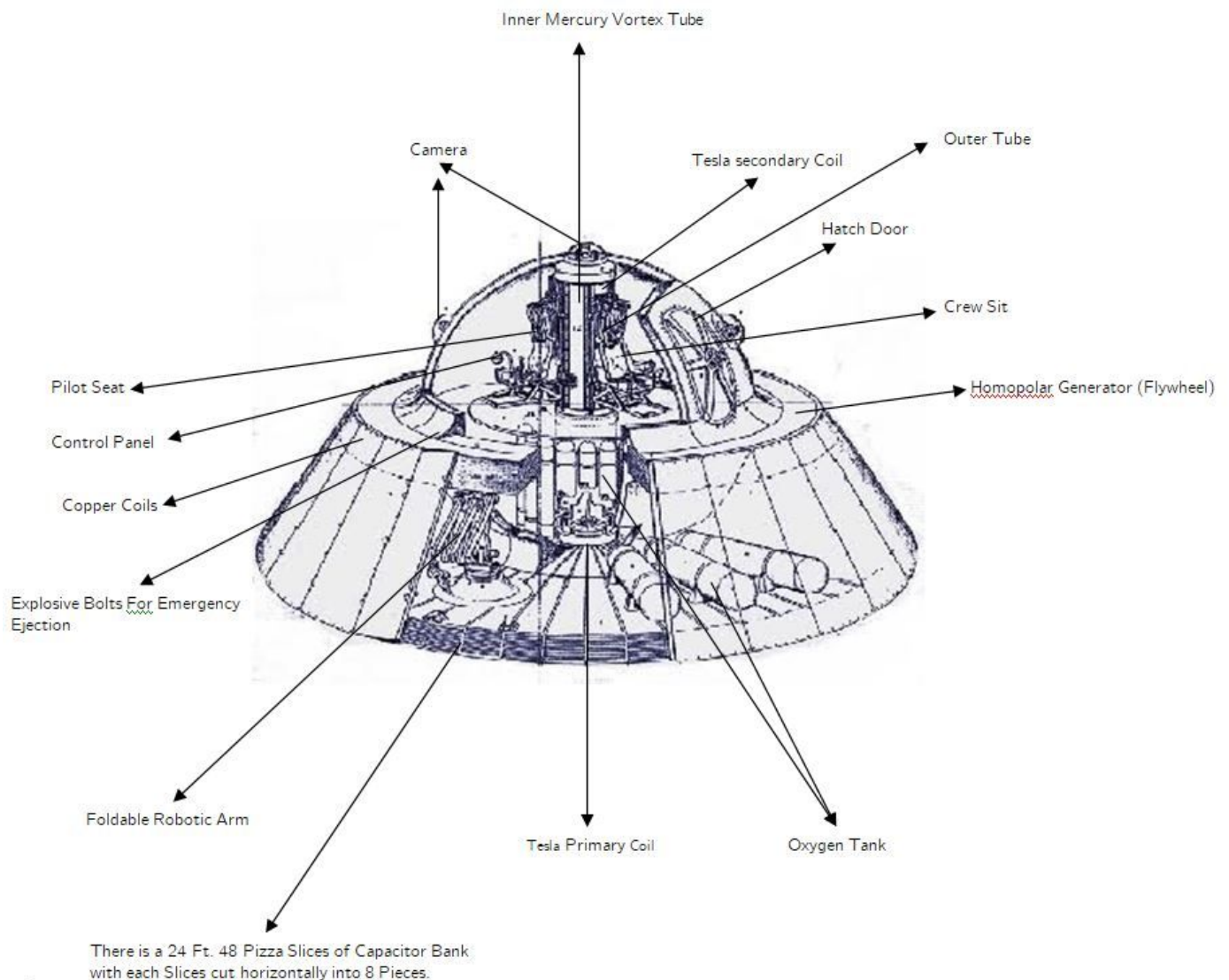


Figure 1: 3-Phase Shift Machine For Dynamical Distortion of Local Space-time achieving Superluminal Speeds with 1-Earth Relative Gravity inside the Warp Bubble.

Methodology:

Theory

The shape of the vehicle had been cleverly designed, so as to harness the ZPE of the nature. The vehicle, been highly energized, has to be covered with a lead coating on the outside, to prevent, the high energized X-rays, other UV radiations get inside the vehicle harming the crew and the pilot inside. Therefore, there are cameras outside the circular doom or the pilot-crew cabin, and the pilot has been wearing a glass which provides a 360 degree view of the ambient vehicle space. At the base of the vehicle there are pizza slices of capacitor plates arranged in a (Brown-Biefeld) configuration, as Negative on the bottom and positive on the up. There can be more than 8 capacitors arranged in this fashion with each stacked over the other. There is a giant Tesla coil powered by a DC-Battery of 24 Volts with a Spark Gap and Capacitors with the Primary coil just placed in a gap above the capacitor banks of the base. The secondary coil would act as an amplifier with the discharge to the cathode of another metal column placed inside the secondary coil. The charges from the cathode to the bottom will move up to the anode at the top of the column. Inside that column, there is a third column with its top as a Venturi with a design like Amphora. These columns are filled with Mercury Ions in a partial vacuum state. Now, the crew chamber must be spherical to distribute the pressure equally over all the surface area. And the middle disk (the diametric disc or flywheel) that is attached with the column acts as a "Homopolar generator" with a high rotating speed that centrifuge the electrons to the copper coil turns at the diametric disc edge. There is ample oxygen supply for the crew but the oxygen cylinders have to have an insulated coating. There are 1 crew and 1 pilot accommodation in the spherical dome. There are 2 seats for them with the pilot having 2 types of controllers, a Potentiometer to control the charges of the capacitor and a spherical shell which can rotate 360 degrees, inside which is a laser diode that while revolving the shell, directs the light to the fibre optics attached to the shell, and these fibre optics have been attached to a Relay, that connects to the sensors attached to each capacitor plate at the base. If the shell, is rotated right-side, the fibre optics activated the relays, which in turn activates the sensors to the right hand side of the capacitor plates, and power is drawn to that side, which makes a movement in the right hand side. Like this way, through the shell, a 360 degree movement could be achieved. Now, as expressed in the explanations of equation (27), the craft could achieve a warp drive through local distortion of space-time, as a 3-Phase shift function, the Mercury Vortex, The Base Capacitors, The Diametric Coils of the flywheel. The field of the Tesla coil have to be in unison with the mercury of the inner tube. The mercury on high voltage circulates the innermost 3rd column in an orientation opposite to the just outer column inside the secondary coil. This in turn creates a vortex of circulating mercury ions in between the Amphora handle subject to high voltages. This creates an absorption point of the ZPE both from the inside and the outside reducing the mass and inertia of the vehicle making it almost massless, and the velocity increases the more, the more ZPE could be harnessed which in turn reduces more mass making a superluminal vehicle in warp bubble. Perhaps this ZPE, interacts with the Higg's field and creates a 10⁴⁰ Joules of energy to remove it almost completely from the vehicle, making it mass less, however, this is not yet understood properly and is just an assumption.

Mathematics

To construct an effective theory of 'field propulsion' we need to parameterize the relations between the potentials of gravity and electromagnetism along with other two factors, as Gravito-Electric

coupling variable and the spatial translation that generates the gravity making a satisfactory equation of 'electro-kinetics'.

Let's consider the electric charge potentials ϕ^+ as positive charge density and ϕ^- as negative charge density. Now, ψ^+ is taken as attractive gravity of G-well, and ψ^- as repulsive gravity as G-hill. The spatial coordinates can be defined as Σ which is a conjugation of 3 factors $\Sigma(x, y, z)$. This defines a translation factor Q to generate the 'gravity potentials' G where $G \in \psi^+, \psi^-$. This defines a relation given by,

$$\Sigma \xrightarrow{Q} \text{oscillates } G \quad (1)$$

Which can be further broken down to two factors of the G potential as,

$$\Sigma \xrightarrow{+Q} \text{oscillates } \psi^+ \quad (2)$$

$$\Sigma \xrightarrow{-Q} \text{oscillates } \psi^- \quad (3)$$

Further relation developed as flow of charge like positive charges from the top got attracted to repulsive gravity at the bottom (negative charge) and vice versa, thereby, giving a push from the bottom upwards,

$$\psi^+ \propto \phi^+ \quad (4)$$

$$\psi^- \propto \phi^- \quad (5)$$

This gives a relation as,

$$\frac{\psi^+}{\phi^+} = \frac{\psi^-}{\phi^-} \quad (6)$$

This defines the mass to charge coupling constant as,

$$K = \frac{\psi^+ \phi^-}{\psi^- \phi^+} \quad (7)$$

The 'force field' of Anti-Gravity \vec{F}_{A-G} can be given by,

$$\vec{F}_{A-G} = \tilde{K} * A \quad (8)$$

Where,

\tilde{K} is the Gravito-Electric coupling variable to be determined by parameters of the vehicle.

A is the continuous integrated variable determined by the parameters of the vehicle.

Now, equation (4) and (5) are worthwhile for an elaborated discussion. This clearly indicates that a positive charge can be generated with an attractive gravity of G-well, whereas, a negative charge can be generated by a repulsive gravity of G-hill. This is an indicative proof that, there exists some scope of unification between electric charge and gravitating mass. We will get back to it soon.

Equation (2) and (3) dictates a spatial translation induced vibrations, where gravity rather than a geometry of spacetime, acts as a positive translation induced vibrations when positive $+Q$ generates an attractive gravity field ψ^+ whereas in negative case $-Q$ generates a repulsive gravity field ψ^- all acts as a force acting on the particles by means of contraction and rarefaction of the etheronic medium.

The attractive gravity induces a moment of electric charge moving towards the object O as,

$$\nabla \cdot \psi^+ = O|_{<0} \quad (9)$$

While the repulsive gravity induces a moment of electric charge moving away from the object O as,

$$\nabla \cdot \psi^- = O|_{>0} \quad (10)$$

This non-uniform density of the gravity potentials outside the force field will act uniformly inside the force field as in equation (8), thereby concluding the fact that anything which is there inside the force field experiences a uniform gravity everywhere which is determined by a variable \tilde{K} as in equation (8) implying that, the object residing inside the force field will not experience any change in acceleration induced gravity as stated contrary in the 'Principle of equivalence' and is always constant at $1g$ Earth acceleration induced gravity, making the object feels a uniform as equal gravitational acceleration, irrespective of how fast the spaceship moves through the ethereal medium in spacetime.

This phenomena that UFOs are disc shaped with a bulge on the top is due to the fact of the conditions for generating a steep gravity potential around them. The fact that 'aliens' have been utilizing the force field of 'anti-gravity' is because of the sightings which involved the rising of the water or a huge wave below the UFO when they are passing above the oceans or seas. And, also, the UFOs which landed on the Earth, when rises upwards takes with them a chunk of soil of Earth, all of this is because of the repulsive gravity potential below the spaceships. However, notice one thing, a rocket imparts momentum to the ground in the form of a thrust and the opposite reactions helps it to rise upwards, whereas, in the case of UFOs, there is no thrust rather a repulsive force which repels earth's gravity and makes the UFOs rising upwards.

But we will see that the second point won't work because of a quantum mechanical reason. The mass of the Proton is 1800 times greater than an electron. This means that p^+ will make a very powerful attractive gravity shield upwards or at the top of the spacecraft attracting it upwards compared to the e^- which being 1800 times weaker than p^+ will exert a less powerful repulsive gravity downwards. This high attraction of p^+ would counteract against the 'negative pressure region' below the craft along with the magnitude of e^- thereby making the spacecraft levitate upwards. This can be expressed by the following equations,

$$|p^+| + P \gg -P + |e^-| \quad (11)$$

$+P$ is positive pressure.

$-P$ is negative pressure.

$|p^+|$ is the magnitude of the force exerted by proton.

$|e^-|$ is the magnitude of the force exerted by electron.

Equation (17) modifies to a more generalized form given by,

$$|e^-| - |p^+| \ll 2P \quad (12)$$

Therefore, from equation (18) it is evident that from bottom to up, the positive pressure dominates.

And this also concludes that P becomes smaller and smaller as the height increases and a point will come when,

$$|e^-| - |p^+| \gg P \quad (13)$$

Indicating the magnitude difference of the repulsive gravity is greater than the pressure itself and the craft will get a massive speed attaining a very thrust to power ratio with power almost become negligible (due to perpetual motion) and the craft attains a speed comparable to that of light.

According to the theory of relativity, the Hamiltonian (H) of an object is given by the relation as a sum of potential energy (U) and kinetic energy (T) stated as,

$$H = U + T \quad (14)$$

Here, as the craft moves at the speed of light the kinetic energy increases with an increase of total energy or the Hamiltonian as,

$$H(t) = U + T(t) \quad (15)$$

But here, in this case as the spaceship is already inside a force field \vec{F}_{A-G} , the kinetic energy could not dominate as the object is embedded inside a Anti-gravitating sphere, therefore, no increase in total energy or the Hamiltonian is observed as in equation (15) and the spaceship attains a constant energy as in equation (20) without getting dragged away by inertia while crossing the speed of the light.

Now, its also not correct to say that the kinetic energy is not increased. Rather when the kinetic energy increased, the potential energy being in an anti-gravity force field with no gravity induced acceleration got decreased as given in equation,

$$H = U(\downarrow) + T(t) \quad (16)$$

This equation (16) is essentially same as equation (14) where in (16), the increment in kinetic energy got compensated by the decrement of potential energy. And as stated in equation (13), the gravity potential increases as the craft moves away from earth and this also induced a greater proportionality of anti-gravity force fields which makes the gravity potential lesser and lesser compensating with the increased kinetic energy potential.

As the vehicle crosses the speed of the light, in relativistic models, there automatically comes a warp factor in spacetime as δ . This warp factor in an induced factor that helps to create closed timelike curves and a wormhole devoid of any singularity and event horizon. A non-compact spacetime. And as the spacecraft gets increased in velocity, it enters ultimately at a constant domain of time and vanishes within the warped space δ . Now, many relativists would argue that, the stability of a wormhole is limited and is governed by some exotic matter having negative energy potentials; therefore, the wormhole is prone to get collapsed immediately after creation destroying the space craft. However, in this case, the scenario is different, the force field \vec{F} of anti-gravity in equation (8) having surrounding the spacecraft in a bubble of negative potentials, this will act as a repulsive gravity to prevent the mouths of the wormhole from collapsing thereby making it stable and traversal.

This induced phenomena could explain the fact that humans have witnessed "*the alien ship rises upwards at a great pace and suddenly vanished in thin air*".

The formula of the **Anti-Gravitic** force field as given in equation (8) is,

$$\vec{F}_{A-G} = \tilde{K} * A \quad (17)$$

Or, it can be represented by further expanding as,

$$\vec{F}_{A-G} = \left[\frac{\psi^+ \varphi^-}{\psi^- \varphi^+} * A \right] \quad (18)$$

$$\vec{F}_{A-G} = \left[\frac{-1e(-\nabla \cdot \vec{F}_E)(-U_{(x)})(\delta)}{+1e((\nabla \cdot \vec{F}_E)(U_{(x)}))} * A \right] \quad (19)$$

$$\vec{F}_{A-G} = \left[\frac{-1e \left((-\nabla) \cdot \frac{1}{4\pi\epsilon_0(x_1-x_0)^2} \vec{r}_{1,0} \right) * - \int_{\mathbb{R}^3} \frac{G}{|x-r|} \rho(r) dv(r)(\delta)}{+1e \left((\nabla) \cdot \frac{1}{4\pi\epsilon_0(x_0-x_1)^2} \vec{r}_{0,1} \right) * \int_{\mathbb{R}^3} \frac{G}{|r-x|} \rho(r) dv(r)} (\nabla \cdot V_e)(-4\pi G \rho)(\nabla \cdot D\rho, r \nabla \rho, t) \right] \quad (20)$$

Where,

\vec{F}_{A-G} is the force due to Anti-Gravity.

\vec{K} is the Gravito-Electric coupling variable to be determined by parameters of the vehicle.

A is the continuous integrated variable determined by the parameters of the vehicle.

$\vec{r}_{1,0}$ is the vector from x_1 to x_0 .

$\vec{r}_{0,1}$ is the vector from x_0 to x_1 .

$q_1 q_0$ are the same charges that repels.

$-q_1 q_0$ are the opposite charges that attracts.

ϵ_0 is the 'electric permittivity' of the free space.

$\nabla \cdot$ is the divergence operator.

∇ is the gradient.

G is the 'Gravitational Constant'.

ρ is the charge/mass density.

\mathbb{R}^3 is the 3-Dimensional space.

r satisfies distance.

t is the time variable.

V_e is the voltage.

v is the volume.

\vec{F}_E is the electric field.

$U_{(x)}$ is the repulsive gravity.

$-U_{(x)}$ is the attractive gravity.

D is the diffusion coefficient.

(δ) is the warp factor.

One thing needs to be mentioned here that, the UFO sightings that have happened are only believed to be the extraterrestrial entities visiting from other faraway planets, but that's, not true for some cases. The theory of relativity shows us that past, present and future exists simultaneously, however, they are indeed separated by space and time at so vast scales that its almost impossible for a person to view his past or future while he is at present. Moreover, relativity theory obstructs the backward time travelling as because, this creates paradoxes and how to travel in forward time? There are many theories but not any concrete solutions.

There is one thing, that's worth mentioning is the analogy that many people have seen with the UFOs *being risen up and vanished in the thin air* with teleportation. But this seems to be a classical teleportation rather than a quantum teleportation, and even if this is a pure quantum teleportation then teleporting each atoms individually within a cluster of atoms and then again assembled the atoms in a proper mapping by additive element of time evolution is beyond human thinking and capacity. Therefore this sort of *vanishing phenomena* can be explained in a rather easy ways by virtue of equation (7, 8, 17, 18, 19, 20) which we will discuss now.

From equation (7 and 19) we found,

$$K = \frac{\psi^+ \varphi^-}{\psi^- \varphi^+} = \frac{-1e(-\nabla \cdot \vec{F}_E)(-U_{(x)})(\delta)}{+1e((\nabla \cdot \vec{F}_E)(U_{(x)}))} * A \quad (21)$$

This equation shows us a simple thing that if ψ^+, φ^- is the attractive gravity and negative charge density respectively, and ψ^-, φ^+ be the repulsive gravity and positive charge density respectively, then, equation (21) shows that if $\psi^+ \varphi^- = (\psi^- \varphi^+)^2$ then, the repulsive gravity and positive charge density vanishes giving the ratio of *Gravito-Electric coupling variable* as,

$$K := \frac{[-1e(-\nabla \cdot \vec{F}_E)(-U_{(x)})(\delta)]}{1} \quad (22)$$

Where $[-1e((-\nabla) \cdot \vec{F}_E)(-U_{(x)})(\delta)]$ contains the positive mass or attractive gravity as a factor of curvature coefficient (δ) which warps the spacetime and absorbs the $(\psi^- \varphi^+)$ or $[+1e((\nabla) \cdot \vec{F}_E)(U_{(x)})]$ by space-time warp factor (δ) . Therefore, from this analogy it can be said that, if the spacecraft initially makes an attractive gravity shield upwards and repulsive gravity shield downwards, then after some height if the magnitude of attractive gravity and negative charge $|\psi^+|, |\varphi^-|$ becomes squared the magnitude of repulsive gravity and positive charge $|\psi^-|, |\varphi^+|$ then, the UFO would vanish in the space-time warp (δ) . This can be described by a simple equation with the *vanishing coefficient* be \aleph_v as,

$$\aleph_v = \left\{ \frac{(\psi^+ \varphi^-)^2}{(\psi^- \varphi^+)} \text{ where } |\psi^+| |\varphi^-| = |\psi^-| |\varphi^+| \right\} \quad (23)$$

As the space got warped up, that we see in some previous equations namely (19 and 20) by the effect of the force field, so, it is highly plausible that, a closed timelike curve gets created and any object which enters the warped space either goes forward or backward in time and therefore, its easy to conclude this warped space as some kind of wormhole devoid of any singularity and of higher dimensions inside which time gets constant, thereby moving to a vast distance from source to destination takes no time at all, as time is infinitely dilated. The equation can be given as,

$$ds^2 = \pm e^{(f-f_0)} dt^2 + \frac{dr^2}{1 - \frac{\partial^u b(\mathbf{F})}{\delta}} + \Pi \quad (24)$$

Breaking down the factors of equation (30), we can find,

- ✓ $\pm e^{(f-f_0)}$ as the Doppler shift function of frequency of the ambient light dependent on time component dt^2 .
- ✓ $1 - \frac{\partial^u b(\mathbf{F})}{\delta}$ of which ∂^u is the dimensions of hyperspace with $u \geq 4$, $b(\mathbf{F})$ is the throat function of force field \mathbf{F} with the throat as b , the warp factor being δ , and solving this equation equating with '0' we can see $\partial^u b(\mathbf{F}) = \delta$ where δ is not equal to '0' and hence devoid of any singularity, all being a radial dependent component dr^2 .
- ✓ Π being the shape factor metric of the hyperspace.

Based on two factors, that is toroidal flow in equation (9), equation (10) and oscillation of equation (1) and (3), a field propulsion can be explained in a different way as that of the 'warp drive' or 'Alcubierre drive', however, the resultant metric that Alcubierre has given have been modified to include the oscillations' of the space generating a toroidal bubble of anti-gravity around it, thereby helping for a warp drive that is superluminal and can get a Lorentz boost upto 10c.

$$ds^2 = -(\alpha^2 - \beta_i \beta^i) dt^2 + 2\beta_i dx^i dt + \gamma_{ij} dx^i dx^j + (\partial \tau, \Sigma(-Q)) \quad (25)$$

Breaking down the equation (31), the parts explained as,

- α is the interval of proper time between the ambient hypersurfaces (\mathcal{H}) where 4-Velocity $u^i \perp \mathcal{H}$.

The 4-Velocity has been calculated on the x coordinate as $u^i = \frac{dx^i}{dt}$ where,

$$\text{Spatial component is } \begin{bmatrix} \frac{dx^1}{dt} \\ \frac{dx^2}{dt} \\ \frac{dx^3}{dt} \end{bmatrix}$$

$$\text{Temporal component is } \left[\frac{dx^0}{dt} \right]$$

- γ_{ij} is the metric of the hypersurfaces which is positive definite and β^i is the shift of coordinates in hypersurfaces as hypersurfaces is considered as a foliation of spacetime.
- $\partial\tau$ is the toroidal ambient boundary.
- $\Sigma(-Q)$ represents the oscillation $-Q$ of Σ which gives rise to negative gravity potentials as ψ^- represented in equation (3).

The respective values are,

$$\alpha = 1$$

$$\beta^x = -v_s(t)f(r_s(t))$$

$$\beta^y = \beta^z = 1$$

$$\gamma_{ij} = \delta_{ij}$$

Where,

- ✓ $\alpha = 1$ Represent the geodesic and free fall trajectory.
- ✓ $v_s(t) = \frac{dx_s(t)}{dt}$
- ✓ $r_s(t) = \sqrt{(x - x_s(t))^2 + y^2 + z^2}$

While,

$$f(r_s(t)) = \frac{\tanh(\sigma(r_s+R)) - \tanh(\sigma(r_s-R))}{2 \tanh(\sigma R)} \quad (26)$$

Satisfies the bi-relation,

$$f(r_s(t)) = \begin{cases} R \gg r_s, \text{ low tidal field} \\ R \approx r_s, \text{ high tidal field} \end{cases} \quad (27)$$

R defines the radius of the ambient surfaces around the spacecraft and $\sigma > 0$.

$\partial\tau$ can be represented as a surface area of $(2\pi r_s)(2\pi R)$ and as r_s is the minor radius, R being the major radius if $R - r_s \approx \varepsilon$ where ε is a small amount then the oscillating field $\Sigma(-Q)$ represents a repulsive gravity field of high tidal force around the spacecraft. This is sufficient enough to warp the spacetime around the spaceship.

References:

LaViolette, P. A. (2008). Secrets of antigravity propulsion: Tesla, UFOs, and classified aerospace technology. Rochester, VT: Bear & Co.

Alcubierre, M. (1994). The warp drive: Hyper-fast travel within general relativity. *Classical and Quantum Gravity*, 11(5). doi:10.1088/0264-9381/11/5/001

Steadman, I. (2017, October 04). Nasa physicist says warp drive is more feasible than thought. Retrieved August 27, 2020, from <https://www.wired.co.uk/article/warp-drives>

Bisness, N. (Director). (2017, April 20). *Anti Gravity Craft ARV Full Documentary by James Allen* [Video file]. Retrieved November 29, 2020, from https://youtu.be/KI_F0XlpacM

APPENDIX A

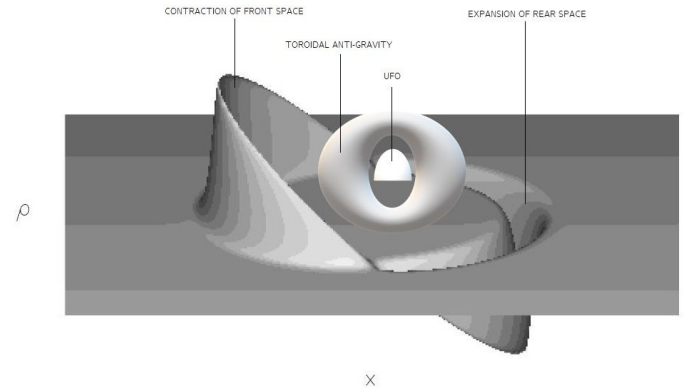


Figure: This picture is taken from 2nd REFERENCE and modified in need of this paper. Here, if Anti-Gravity field acts as an exotic matter, then, the UFO could be shielded by a bubble of Anti-Gravity which can make the warp drive as discussed in this paper.

Author of this paper declares that he do not have any competing interests related with the paper.

 <https://orcid.org/0000-0003-0466-750X>