

HIGH-FREQUENCY GRAVITON INDUCTION BY MEANS
OF SYMMETRY-BREAKING

QUADRUPOLE MASS OSCILLATIONS

A Breakdown of Suppressed
Scientific Knowledge



PHASEHELIX

A Unified Field Theory Approach

IMPLEMENTING THE LOCAL VACUUM

NON-NEWTONIAN GRAVITATIONAL FORCES

"Dark Matter", "Exotic Matter", "Negative Mass", "Anti Gravity"...All Terms Leading back to the same Underlying Source?

Heaviside (ca. 1880's), Einstein (prior to the 1915 publication of his General Relativity Theory) and Thirring (1918, 1921) showed that General Relativity Theory provides a number of ways to generate non-Newtonian gravitational forces. These forces could be used to counteract the Earth's gravitational field, thus acting as a form of antigravity. We see that through the enablement of a 3+1 Lagrangian model (3 spatial dimensions and one time dimension); such gives rise to a generally covariant and gauge-invariant higher symmetry torsion EM field interaction, i.e., an orthonormal set of tetrads that exist within the local vacuum but are not immediately realized (nor observable) unless the local vacuum is implemented to be treated as that of a physical system, and not just as some form of a nullified barrier that gets in the way of both calculations and experiments. This package attempts to enlighten those whom may not be familiar with the

alternative, yet rich literature that has acted as the 'silent concomitant' alongside mainstream publications. The author tries to provide the reader with a cohesive understanding of the fact that, through the decades, papers have been published on gravitational wave emission that have then quietly been either retracted, or simply remain public - but go nowhere past the confines of basic publication...

Laboratory Generation of High Frequency Gravitons via Quantization of the Coupled Maxwell-Einstein Fields

(Paper HFGW-03-125)

by
Eric W. Davis, Ph.D., FBIS[†]

ABSTRACT

This paper summarizes how electrodynamics and gravitation are coupled in a Hamiltonian formulation followed by an appropriate quantization scheme. From an analysis of the coupled field interaction Hamiltonian one can derive a completely classical scattering cross section for the decay of photons into gravitons and photons, and thus describe a simple physical mechanism for the generation of gravitons in lab experiments. It is shown that astronomical detection of galactic ELF – VHF gravitons near Earth is presently feasible. An alternative graviton production scheme involving low energy laser photon and high-energy electron beam scattering in a linear collider is described and compared to the photon scattering decay scheme. An evaluation of a scheme to generate gravitons in the lab using a pulsed power system and ultrahigh intensity lasers shows that technology is several years away from realizing the energy and sizing requirements for generating a significant number of gravitons. A speculation on a future space propulsion system is described whereby an intense highly collimated beam of high frequency gravitons is produced and emitted from the propulsion system. Einstein's General Relativity Theory allows for a beam of gravitational radiation to be used as a propellant because gravitational waves are ripples on the curvature of spacetime such that we can use this propellant to attain acceleration simply by ejecting one hard vacuum into another.

We see, self-evidently, that papers such as the one above written by Dr. Eric Davis, seem to not only support such an approach in which would give rise to anti-gravitic phenomena, but also supports the notion that there is indeed more than one way to access this form of energy...

A HISTORY OF SUPPRESSION?

**Investigations of Specially Conditioned Electromagnetic Fields
for High Frequency Gravitational Wave Generation**

(paper HFGW-03-122)

by

H. David Froning, Jr. † and Terence W. Barrett ††

The mathematical structure of fields which describe nuclear structure and gravitation are of “*non-abelian*” form and possess $SU(2)$ symmetry or higher, while fields which describe electromagnetism are of simpler “*abelian*” form and $U(1)$ symmetry. It is, therefore, believed that ordinary electromagnetic (EM) discharges are incapable of causing gravitational disturbances that generate gravitational waves. In this respect, one of us (Barrett) has identified two methods of transforming EM emanations of microwave and laser transmission systems into specially conditioned EM emanations of *non-abelian* form and $SU(2)$

Gravity with a Spin: Angular Momentum in a Gravitational-Wave Field

(paper HFGW-03-114)

by

Paul A. Murad† and R. M. L. Baker, Jr. ††

Newtonian gravitation adequately predicts both planetary and spacecraft motion. The appearance of gravitational anomalies and travel at or near relativistic speeds suggests that before devising an advanced astronautical propulsion system, gravity should be better understood and integrated within a unification theory to possibly include electricity, magnetism and ‘*gravitational waves*’ in Einstein’s spacetime continuum. Thus new theories are needed that predict currently accepted phenomenon as well as anomalies. This paper proposes a new theory that follows efforts identified by the authors, Dyatlov, and Jefimenko, for a universal gravitation model that reflects a radial force term coupled with angular momentum. For example, Dyatlov explains angular momentum effects as consequences of a ‘spin’ field. Incorporating angular momentum within gravity can explain various unknown spin asymmetries by allowing transfer of gravitational radiation directly into angular momentum. Additionally, slowing the rotational rate of a rapidly spinning neutron star may be due to generating gravitational waves with the star’s attendant reduction in energy and angular momentum. Angular momentum conservation implies that the star’s gravitational field ‘*carries away*’ angular momentum by changes within the gravitational field in a tangential direction,

**Conditional possibility of spacecraft propulsion at
superluminal speeds**

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Abstract: The concept at hand deals primarily with the application of the conditional replacement technique (CRT) (Pais, 1991) to Special Relativity Theory. It is observed that under certain physical conditions, the singularity expressed by the relativistic stretch factor ‘gamma’ as the spacecraft’s speed (v) approaches the speed of light (c), is no longer present in the physical picture. This involves the instantaneous removal of energy-mass from the system (spacecraft) when the spacecraft’s speed reaches $v = c/2$. Hence under such conditions, faster than light Spacecraft Propulsion, is feasible. The original concept at hand does not violate the Special Theory of Relativity, it rather builds on its foundations.

Keywords: faster than light travel; special relativity; spacecraft propulsion.

Reference to this paper should be made as follows: Pais, S.C. (2015) ‘Conditional possibility of spacecraft propulsion at superluminal speeds’, *Int. J. Space Science and Engineering*, Vol. 3, No. 1, pp.89–92.

CURVING SPACETIME TO ENABLE ANTI-GRAVITIC, HIGHER SYMMETRY E.M. PHENOMENA

A PECULIAR HISTORICAL PATTERN...

One thing that the author would like to point out to the reader is that regardless of the source of such publications, there is a constant, never-ending return to the conceptual understanding of the **curving of spacetime by means of an electromagnetic gradient, giving rise to higher/second-order effects, not unlike that of building steps to make a set of stairs: If we consider that the electric permittivity and magnetic permeability of the quantum vacuum (or 'aether') represent the masculine and feminine metaphysical characteristics of life (electric = masculine, magnetic = feminine), we then must ask, could such metaphysical characteristics then give 'birth' to physical characteristics? Could it be possible that such processes for inducing said phenomena in the laboratory have been staring us right in front of our faces the entire time?**

The question then becomes, how can one "curl" their Poynting vector to become topologically stable and potentially even, dare one postulate, anti-centrifugal? What would such phenomena even entail? Does quantum electrodynamics inhibit a form of infolding and out-folding via far-from-equilibrium forms of electromagnetic induction that surpass that of Brownian motion and may indeed, **organize** the particles exhibiting such local Brownian motion?

One must then consider, that through the inspiration and advocacy of **Dr. Sal Pais** (who has quite appropriately advocated for the investigation of the work of Ilya Prigogine), there is indeed an effect that has yet to be explained from phenomenological perspectives entailing the **stabilization of disequilibrium, thereby directly affecting the entropy of a given system, potentially enabling forms of cold fusion, i.e., nullifying local exothermic reactions whilst still**

Who is Ilya Prigogine and what were his contributions to our understanding of entropy? ^

In 1945, four years after receiving his doctoral degree from the Université Libre, Prigogine formulated the theorem of minimum entropy production, which describes nonequilibrium stationary states, and noted its significance in relation to the most important far-from-equilibrium systems: living organisms.



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Ilya Prigogine | Encyclopedia.com

**maintaining conservation of energy and momentum, thereby inducing a potentially-
endothermic event that has yet to be explained by current, public theoretical models.**

"ORGANIZING" BROWNIAN MOTION: WHAT DOES THE QUANTUM VACUUM/'AETHER' "ORGANIZE" INTO? Turning "Chaotic" Brownian motion into Organized, Hexagonal Quadrupole Structures...

A seldom-appreciated phenomena within the public field of academia is the notion that **charge-parity inversion is equivalent to reflection**, and therefore a non-linear optical effect **must** be present in **all** EM systems, whether noticed or not. Such understandings have given rise to what has been called **charged barrier technology** coupled to that of an **RLC circuit**, which is indicative of not just pulsed-powered systems, but is also indicative of the fact that it may indeed be possible to detect gravitational waves electromagnetically via a form of **spin-anti-spin resonance**. Of interesting note as well is that an RLC circuit is indicative of an electrical spring-mass system with damping - such a system is uniquely similar to that of what is needed to understand the speed of light limitations, permeability of free space, and more:

May 1, 2001

Massachusetts Institute of Technology
Physics Department

8.13/8.14

2000/2001

Junior Physics Laboratory Experiment #007

An Electrical Measurement of the Speed of Light

PURPOSE The purpose of this experiment is to determine the value of the constant $c = (\epsilon\mu)^{-1/2}$ of Maxwell's theory of electromagnetism by mechanical and electrical measurements.

Is it possible that such resonance, under the conceptual basis of Quantum Mechanics (particularly the '**zitterbewegung**' effect denoting the observation that all particles are constantly, always oscillating and never 'stop' in its place - it was initially thought via classical methods that all objects eventually do come to rest which has been found to **not** be the case and that they are in fact always oscillating at the quantum level) could then lead to much higher-order effects that utilize the square root form of hexagonal structures (indicative of fractal propagation stemming from incident waves in optical physics) within physical cavities curated for highly-attenuated forms of resonant energy to be emitted via various types of pulsation? Please note this is to be considered applicable far past the parameters of propulsion (i.e., medical, communication, etc). Could it also be possible, that the '**zitterbewegung**' effect may have inherent relations to that of the **Heisenberg Uncertainty Principle** (*H.U.P Definition: if position of a particle is determined, then its velocity cannot be known, and if velocity of a given particle is known, then its position cannot be determined*).

If the 'zitterbewegung' effect is to be taken as a given in Quantum Mechanics, is it then possible that resonance induces super-positioning of particles that would otherwise not be achievable? What could - or would - this lead to?

What if the Earth itself acts as a global capacitor that has its own internal resonance? Is this what gave rise to the wireless energy transmission that Tesla boasted of that then silently dissipated into the shadows of R&D? Could such be indicative of what has been called "electro-culture", "electro-farming", etc? Let us take a look at one paper (amongst many) below that may indeed substantiate such postulations:

The atmospheric global electric circuit: An overview

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RE-DEFINING OUR UNDERSTANDING OF "STATIC"

One must then ask, "well, how do we reconcile the differences between linear and non-linear forms of 'static' spacetime metric (superposition) topology? How do we interpret such? How do we reconcile such pre-conceived notions of 'static' electricity within that of spatially-confined resonance? How does this permit us to enable a gauge-invariant local spacetime metric alongside a generally-covariant metric depending upon our objectives?"

Let us consider that in Quantum Mechanics, there may indeed be two forms of what we know as 'static', as discussed below:

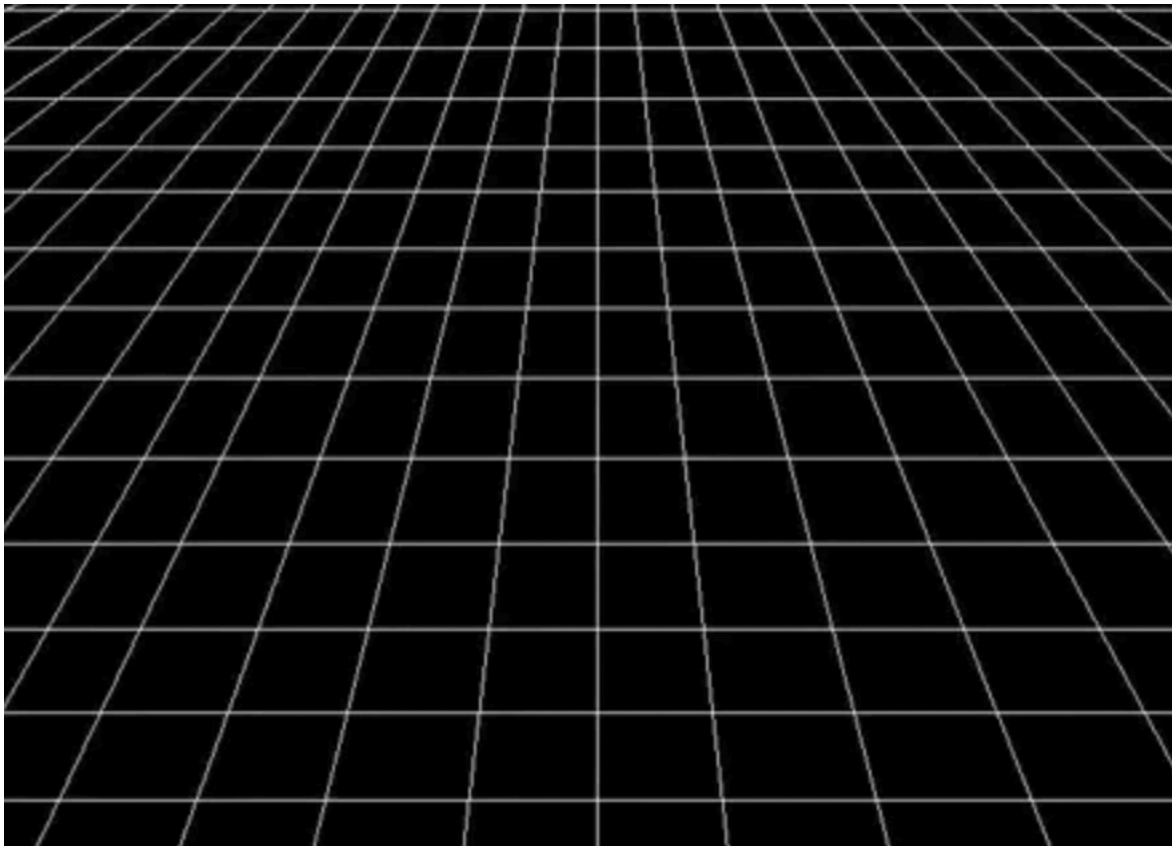
*"To retain causality, we must distinguish two distinct meanings of the term 'static'. One meaning is unchanging in the sense of no moving parts. The other meaning is **sameness** from moment to moment by **continual replacement** of all moving parts. We can visualize this difference by thinking of a waterfall. A frozen waterfall is static in the first sense, and a flowing waterfall is static in the second sense. Both are essentially the same at every moment, yet the latter has moving parts capable of transferring momentum, and is made of entities that propagate."*

Taking such a perspective permits us to then ask, could it be possible that the molecules or atoms of a given medium, in contact with the skin of a moving craft/vehicle, create a boundary layer of 'dense' matter which exert forms of frictional 'drag' (*thanks to our new understanding of the term 'static'*) on the skin to retard forward movement. Because of the use of what is called Phase Conjugation, in addition to the directional Poynting flow - rather than pure current (dq/dt) flow - the charged barrier technology can be used to charge the skin of the craft/vehicle in a very particular and phenomenological fashion. The tiny nonlinearities of the skin become internally-pumped Phase Conjugate 'reflections' (considering our earlier discussion on charge parity inversion being equivalent to reflection in correspondence with the internal electromagnetic components of the static charge, in which a set of hidden bi-directional

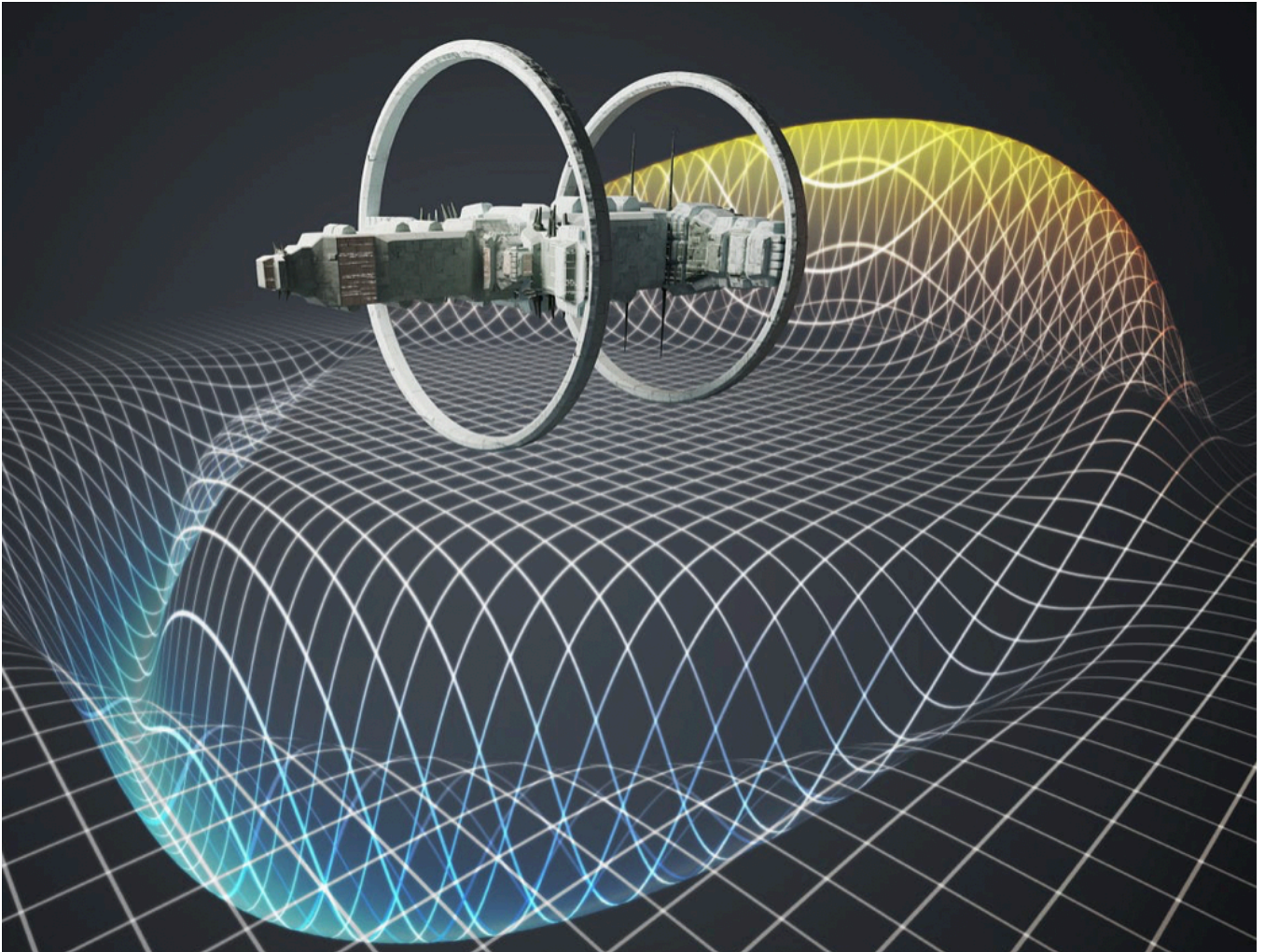
waves - consisting of a unit vector with both direction and magnitude in this case - comprise the core source of said pumping) resulting in the additional emission of highly **amplified anti-signals**. We also know that via the distortion correction theorem, these anti-signals/anti-waves 'back track' themselves precisely to the incoming asymmetric charged nodal points, where there is then an interactive force field inherent within its structure that then create a **repulsion effect**. Recoil is not a factor as this is purely a transient phenomena, and **it is of significance to note that this is by no means the only method or 'avenue' to pursue such effects.**

Let us now take a look at what a 'before vs. after' effect on the local spacetime metric (a.k.a. 'reality') would entail if such effects were induced - please keep in mind this can be applied to the body, the outer skin of a large, physical craft, various forms of communication, in addition to temporal distortion effects:

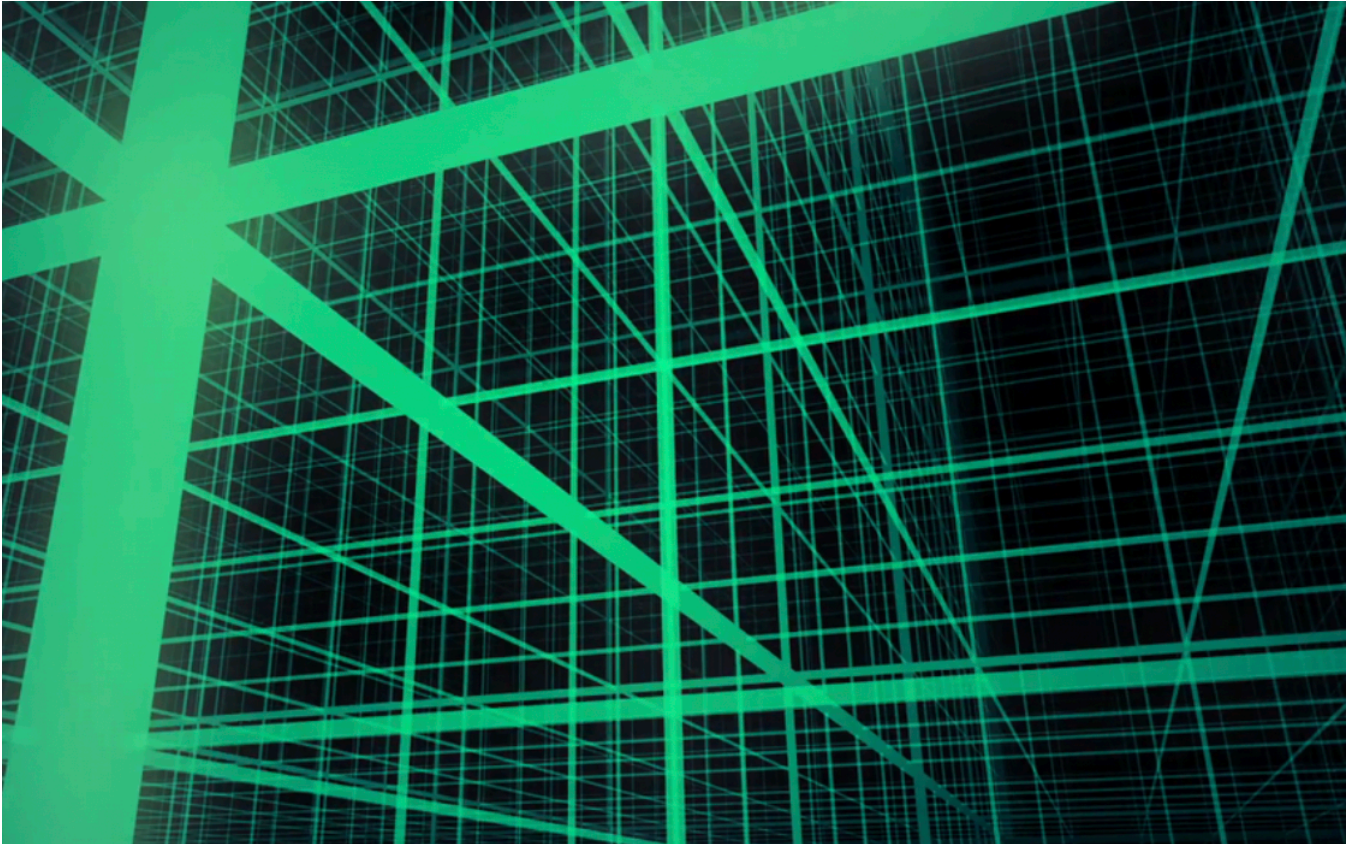
BEFORE the LOCAL SPACETIME IS AFFECTED:



AFTER the LOCAL SPACETIME METRIC HAS BEEN CURVED BEYOND A PARTICULAR ENERGETIC THRESHOLD:



ONE, THEN, IF INSIDE OF THE CRAFT/VEHICLE, IS ABLE TO OBSERVE
SPACETIME IN HIGHER TOPOLOGIES/DIMENSIONS:



HOWEVER, THE EXTERNAL OBSERVERS WILL ONLY SEE A FLAT, CONCAVE
INTERSECTION OF SUCH PHENOMENA, AND WILL NOT OBSERVE WHAT THE
OCCUPANTS INSIDE OF THE CRAFT/VEHICLE OBSERVE.

The above image attempts to provide a straightforward description of detailing a
visual insight into what quadrupole structures *could* look like, and each
quadrupole can then ultimately be perturbed, distorted or warped as long as it is
within the local vicinity of said craft/vehicle. We know that such asymmetries and
their field interactions exist based on both theoretical and experimental work;
Richard Feynman being one of them:

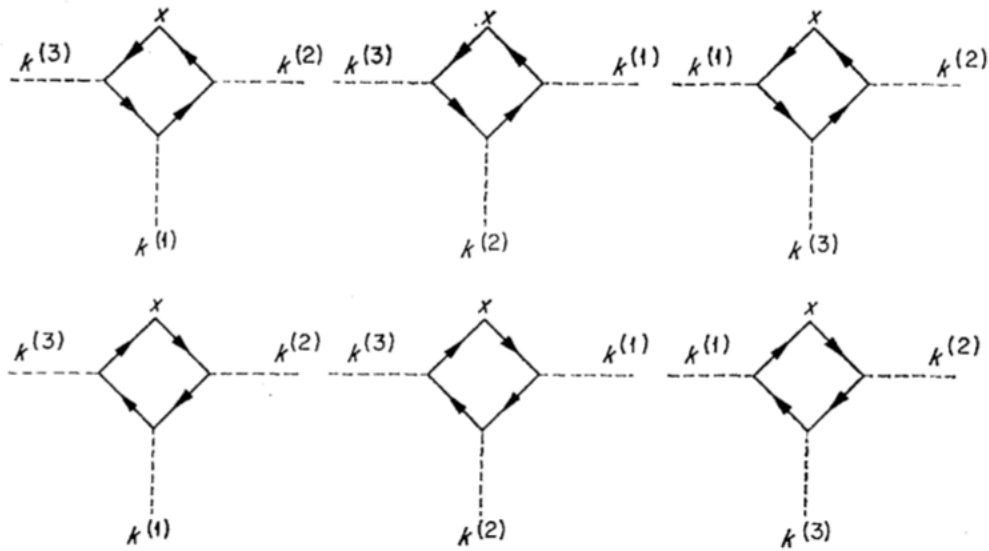


FIG. 1. Feynman diagrams for photon splitting.

Hopefully this package can, and will, provide a detailed, insightful depiction of how such alternative physics has not only been suppressed, but to how such forms of energy could be utilized - albeit we've limited our examples in this paper to the scope of charged-barrier technologies - however there is much, much more...

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