

Research Proposal to Test a Fluid Dynamic Drive for Creating Einstein-Rosen Bridges in Space/Time

Jonas Tyler Doran

303 East Tuscarawas Ave. apt. 312 Barberton, Ohio 44203, United States of America

Abstract: *This research proposal is to present two concepts in their basic form without extra components to make a totally functioning system, that could be used for achieving a faster than the speed of light travel ship that is comparable to Alcubierre drive and NASA proposed IXS Enterprise concept. This is done by the control of energy fields that not only create matter/antimatter components that constitute Dirac Spinors for the torsion tensor of the Einstein-Cartan-Sciama-Kibble theory of a wormhole but quantum fluctuations on time/space that can be comparative to black hole and white hole components.*

1. Introduction

Ever since the science fiction the series Star Trek and Stargate man has wondered if the speed of light travel was possible. That with our current technology it is just becoming a possibility of making a trip to Mars planned by NASA by 2030-2035 but the reality of deep space travel past Mars is still out of our reach. Let alone the concept of getting to a planet that has the same environment, as our planet earth, so as to colonize it. The closest planets that has a earth like atmosphere is Gliese 581c, which is 20.37 light years from earth or a planet that lies in Alpha Centauri about 4.8 light years from earth, which with our current technology would take about 200 to 20,000 years to get to it. Though there are projects in the works, like eagle works labs IXS enterprise project headed up by Harold White of NASA, and David Paras Space Warp dynamics project--both working on the concept of bending space-time based upon Alcubierre metric/drive. If humans ever want to achieve colonization of a planet so far away we need to achieve the speed of light travel or speeds past the speed of light. Another possibility for reaching these distances would be to find a way to create Einstein-Rosen bridges aka wormhole technology [*1]. Such achievement by man may be one of the most important technologies of all time that breaches space and time in ways that makes us more part of the universe and less contained to just our planet, in which we have never really experienced, except with the exceptions of localized space travel and landing on the moon in 1969. Such a achievement may even make us re-examine our humanity and our metaphysical/philosophical outlook on the Universe. It may change how humans perceive themselves and humanity. Advance us not only technologically but ten fold like it did in the science fiction movie "Star Trek-First contact". In this movie inhabitant of the earth just ended its third world war and humanity may have been at its lowest existence but was renewed with life and a new understanding of what it meant to be human after warp drive was achieved and the first contact with an alien species happen afterward. The problem is how would mankind ever achieve such an advancement, so we have to begin with the concepts of the Einstein-Cartan-Sciama-Kibble theory to figure this out. This may give us a basis for how we are to achieve such a technology [1][*2]. This theory, would if possible, in use, be able to create a comparable way of this type of travel by concepts like the Alcubierre drive [*3] and or Black hole Starships [*4] if one could use the Einstein-

Cartan-Sciama-Kibble Theory to create a micro- black hole and subsequent white hole for the creation of an Einstein-Rosen bridge. Though first, we have to understand how to create these two elements (a black hole and a white hole) according to the theory. So we start by trying to understand another upcoming important physicist named Ken Wheeler, which has some concepts on one of the key elements of what I have found as important to this whole process, and in which is at the central theme of these types of propulsion concepts through space and time. He does this by showing the behavior of gravity and how elements like mass and magnetism interact with it and or cause it. Wheeler describes the concept of gravity by referencing to such things as inertia, the force of motion, dielectric condensation, etc, in his book [2] but neglects the quantum mechanics implications, in which he believes has less to do with gravity and more with common physics. He thus believes gravity is caused by lose of inertia and force of motion of things like light (quanta) and magnetism, and not so much as of quantum effects, in which I suggest go hand in hand and I suggest understanding the quantum mechanics of this type of travel is one of the key points in which we have to understand to make this technology possible, even if Wheeler does not. Genius in his own logic, that makes sense but, has to incorporate the quantum mechanical understanding of the whole thing. The thing he suggests that is relevant to this technology is the concept that mass is a dielectric condensate caused by the centripetal convergence of light. It is suggested that this condensate is made of mass that I suggest is made of light (quanta) and the convergence of this mass is caused by magnetism. This means that light is comparative to mass, thus $E=mc^2$ comes into play. That centripetal divergence is caused by the release of this convergence thus, the release of the magnetic fields that cause it. That magnetism in itself is centripetal convergence and its opposite field is the centrifugal divergence from the centripetal convergence that was created. This would be the essence of a black hole, but only in part. That light can combine in many ways through this process to make mass. One in which I will describe in this essay. This brings me to part two of this introduction on how to make a drive that uses gravity to propel through space. If what Wheeler suggest is true this concept would give more evidence that the Einstein-Cartan-Sciama-Kibble theory holds ground thus the next thing would be to describe the dynamics of a Black hole construction.

Volume 7 Issue 10, October 2018

www.ijsr.net

Licensed Under Creative Commons Attribution CC BY

If this is true (what Wheeler says) then General Relativity is the effect of centrifugal convergence of light into mass (quanta into mass, $E=mc^2$), centrifugal because light travels in waves that oscillate and have frequency thus, a shift in anti-node peaks by oscillation. Thus the creation of properties of mass that are non-linear and could be in circular or spiral form, as would be with convergence from oscillating magnetic fields and spin of (velocities of particles). This would be the variable of the Einstein-Cartan-Sciama-Kibble theory in which torsion tensors combine with Dirac spinors [*5] that can come from pair production caused by waves of light, to cause at first a black hole, but then a repulsive spin-spin reaction that creates a white hole, completing an Einstein-Rosen bridge. We will get to this later in this introduction to this paper. First, we have to discuss how an actual black hole is made. According to the article on Wikipedia on micro-black holes, [*6] if enough mass, in the equivalent to Planck's mass or energy as in the form of a Compton wavelength, [*7] in the size of a Schwarzschild radius [*8], where the energy or mass concentrated in the size of Schwarzschild radius on the local vacuum of space and has an escape velocity that exceeds the speed of light, a black hole can be created. If quanta can be comparative to energy and the centripetal convergence of quanta makes mass, then a Schwarzschild radius can be made by a convergence of light (quanta), that is comparative of this energy/mass into the size of a singularity, and thus the use of magnetism and light in the form of an electromagnetic wave. This focus of energy in this local space is comparative to a quantum fluctuation [*9] where a higher energy density in a area of space can make a compression on time/space according to $E=mc^2$ (energy or mass makes the effects of general relativity changing the constant of gravity). This electromagnetic wave may be what is needed to create a black hole- just as long as you can focus it into the area of a Planck's mass (Planck's length) or a Compton wavelength of the same value. The definition of a quantum fluctuation is a change of energy in area of a vacuum that makes electron/positron pairs. If one can make gamma rays of at least a certain MeV then the gamma rays will make positron/electron pairs that thus annihilate and make more gamma rays that in turn change the energy density of a area of a vacuum. If these gamma rays are made in at least the area of a Planck's mass or Schwarzschild radius on could thus make a black hole. Thus the condensation of space in front of an object. While this is happening the annihilation of positrons and electrons makes holes in the Dirac Sea thus a negative mass/energy density to expand space behind the contraction or in other words make a white hole. This creation of quantum fluctuations that lower the energy density in the local vacuum of space and create electron-positron pairs can be comparative to the description of zero point energy. In Pair production a particle and antiparticle pair is made near a nucleus but, can be created without it being near a nucleus [10*][11*], if the photons that are making the mass is at their center of mass-energy [*12], in this case, because of creating a Schwarzschild radius or in other words a naked singularity, this radius would be their center of gravity at the time of convergence. The concept in Two-photon physics is photon scattering and thus use of photon scattering. From this process, two photons combine to make a particle/antiparticle pair. This process can, later on, lead to the combination of

the particles made with other photons to make different types of mass but, in some cases, they just annihilate each other and make gamma rays. This how this centripetal convergence of light works. While any particle can be made, electron /positron pair is made from photons in this process but, as I stated other higher order particles can be made. What determines the pair production of /positron pair is what the amount of energy that the particles being made is at during their rest mass state [13*]. This can come from the frequency at which the wave is at. In this case, the rest mass state of an electron is 5.486 times 10 to the negative 4 power which is equivalent to about 0.511 MeV of energy and converts to roughly 1.23eV to the 20th power in hertz (somewhere in the mid-gamma-ray range). Then you take these numbers times because two waves make two separate particles, to thus make the pair. If one was able to concentrate this type of pair production in the area of a Planck mass (Planck's constant) or Compton wavelength (Planck's constant) one could create a black hole, because mass is energy ($E=mc^2$) thus energy converting in to mass would be the same as mass or energy in the same constant or wavelength. Thus from either the mass created or the annihilation into gamma rays, you will get the same compression, thus fluctuation on a Dirac space vacuum or simply put the vacuum of space. Fluctuations that make positron/electron pairs though pair production of the gamma rays created. The next part of making a white hole is a little more difficult. According to the Einstein-Cartan-Sciama-Kibble theory, one would next have to make a torsion tensor and Dirac Spinor from the black hole state or in this case while the black hole is being made, to get this spin-spin repulsion reaction. To do this we have to look at the Dirac equation for spinors. [*14]. While some electron/positrons created will annihilate each other some electrons and positrons may be left for like particles (two electrons or two positrons according to the Dirac equation) will repeal off each other also attributing to repulsive forces from the condensation of energies and particles that make first the blackhole then repulsion into a white hole. Gamma rays or energy created by electrons, thus electromagnetic or electrostatic fields cause the effects of the Dirac equation. This thus fits under the definition of the Einstein-Cartan-Sciama-Kibble theory of a wormhole and is comparative to Alcubierre Drive in the sense of creating a contraction of space in front of the mass creating the quantum fluctuation while creating an expansion of space behind. Plus because of the velocities of the antimatter/matter created, thus fitting into the angular momentums of spin in the Dirac equation, the compression, and expansion of space/time (black hole and white hole) would create a vortex or spiral shaped wormhole on space/time. This creation of negative mass is comparative to how excitons turn into polaritons in a certain semi conductive material like molybdenum diselenide in which lasers are used for the reaction upon the material. All one would have to do to start a reaction to create a wormhole is to create energy density on time/space with electrons. Possibly by an electrostatic field, and to speed up the process add positrons to the mix to start gamma rays to be produced. Also, acceleration of charged electrons will cause a quantum fluctuation to start because of Newton's formula of $F=ma$, where force is caused by the energy of some sort, that causes the mass to accelerate thus more mass or energy on a localized area of time/space [4]. With acceleration of

mass more gravity according to general relativity. In the methodology section below I will suggest ways to achieve a drive that will do this. This process causes a torsion tensor that is caused by the Dirac spinors that is in the Einstein-Cartan-Sciama-Kibble theory. This can cause the process of the black hole creation by focusing energy/mass in the area of a Schwarzschild radius, causing a reaction in which General Relativity occurs (bending of time/space) and at the same time the spin-spin repulsion and rotation of the elements causing a white hole to happen thus ejection from the black hole. The irrational vortex created by these process (bending time/ to the center point of a and apply a torsion tensor by the spinors) would be in metaphor to putting the pressure of a vortex on space/time creating a vacuum fluctuation then twisting it at the same time leaving the vortex rotating in the other direction because of the spin-spin reaction, like a whirlpool, tornado, water going down a drain or a whirlwind. This reaction changes though with higher ordered pairs in pair production that would add more energy and mass to the black hole thus longer or faster travel through space/time. This would be almost like Alcubierre drive in the sense it contracts space in front of the ship (creating a naked singularity) and expanding space behind the drive (gamma ray burst and spin-spin reaction) creating a space bubble around mass due to the change in the constant of gravity (the increase of gravity changing the variables of mass that is caught in the change in gravity) thus the black hole/white hole is creating that changes the relativistic values of that mass and might make a reduction in mass in a sense. As far as the question of Hawking's radiation [*15], if this introduction to this essay is the way a black hole is made and functions, then Hawking's radiation is what it states to be blackbody radiation in the form of virtual particles but with a twist. That according to the explanation of the radiation, I suggest a particle-antiparticle pairs is made within the quantum fluctuations making a black hole and one of the pair escapes due to the reactions above creating negative mass a black hole cant suck in. This is because of the holes created in the Dirac Sea above thus having negative mass in the form of a virtual particle. These above could explain why antiparticles decay in the past and also explain why there is virtual particles in space by the fact that not all electrons and positrons are visible due to the Pauli exclusion principle, Dirac equation, Dirac Sea and the holes described in the Dirac Sea. That with these holes and negative mass, thus mass would be non-relativistic and thus not apply to special relativity or general relativity in a sense so thus they would decay into the past That the holes in the Dirac Sea and how they become particles can explain virtual particle fluctuation in and out of space/time[*14].

Another thing that can be proven by this research is a suggestion of an explanation of the Grand Unified Theory. If you take into account that $E=mc^2$ is the formula for energy from mass and that the opposite of $E=mc^2$ is energy into mass from the formation of mass from light (electromagnetic waves, photons) in pair production then gravity is affected by electromagnetism. That according to Newton two masses in space come together because of gravity and if gravity is the centripetal convergence of mass or energy in the form of light (photons) that are affected by magnetism (Faraday's laws of magnetic fields interact with light). This would mean that electromagnetism and gravity have a common ground.

Then if you take the same concept of centripetal convergence and centrifugal divergence of light by magnetism, curvatures of light that can become a frequency in a sense, and apply it to Schrodinger's equations and Bose-Einstein statics where fermions are connected by bosons, when put with Schrodinger's equations suggest that the energy level of a boson and the variables of the fermions determine the effects of gravitational attraction and repulsion as well (which is also shown in the photoelectric effect with the movement of electrons absorbing light) then it is safe to assume that, because of Schrodinger's equations and Bose Einstein Statics, that high-frequency electromagnetic waves and other bosons (at high frequency that cause the exchange of gauge bosons) could attribute to the strong bond of strong nuclear force, just as lower frequency electromagnetic waves could attribute to the weak nuclear force. Making all four forces (gravity, electromagnetism, weak nuclear force, strong nuclear force) all being affected by magnetism. Thus Magnetism is at the center if not the main causes or linking factor of all four forces thus stating a link for the Grand Unified Theory. Another example of electromagnetic waves and gravity in the creation of strong nuclear force is that two gluons will create the Higgs boson which I suggest makes gravity because the Higgs boson helps create mass and mass has gravity. Two other thing to take into consideration when dealing with a drive that does the things expressed above is the aspect of higher order effects like the "smoke ring" effect and the chiral corkscrew effect described in this reference [*16] this is because of the particle/antiparticle interactions and angular moments described in the Dirac equation.

In conclusion to I suggest while a black hole/white hole might be able to create a Einstein-Rosen bridge, the bridge is only one way and not transferable because if the laws above are anti-symmetrical and because of Hawking's radiation, where mass can enter a black hole and can't leave only in the form of a virtual particle whereas mass can leave a white hole but cant enter one. One, unless verified differently, could go one way through one wormhole but never back through the same wormhole. Though one could create another wormhole and create a reverse path back the question thus presented at this point would be one of the effects of general relativity and the measurement of time. Is time affected by the effects of special relativity when dealing with Einstein-Rosen bridges and If so is with special relativity being accurate then one could travel a small amount of time at the speed of light but everything else ages extremely. Maybe one would travel a wormhole then back though another, back to the position in space-time might be able to reverse time. Does the actual amount of time in which one travels in the wormhole determine this change in time whether forward in time or in reverse. The scientist trying to prove that Alcubierre believes not if a warp bubble is created. This would have to be thought more of. One thing is definite though. When dealing with the aspects of general relativity in these cases one has to assume that time is effected. This change is even seen in the world we see today by satellites right outside of our earth atmosphere in space between earth and the moon. That because of the earth gravitational pull and rotation, objects in space have a different gravitational time dilation than what time is on

earth. One more thing to state. The most important thing in this process is the formula for pair production, in the area of Planck's mass or Planck's length, then repulsion, thus the Einstein-Cartan-Sciama-Kibble theory. This starts with the variables in the matrices of the Dirac Equation dealing with Dirac spinors when it deals with the equations of general relativity and relativistic mass for any particle/antiparticle pair whether higher order or not, though with more mass more an increase in the variables that cause a black/white hole-wormhole (higher order mass thus a proton/antiproton, neutrons etc). Even a possible tachyon that I would suggest comes from processes that mass is traveling past the speed of light because I believe the value of spin causes charge due to its effects on handedness of a particle and this is why boson has a whole spin thus no charge because with a whole spin there is no handedness to a particle so would be the case with a spin-2 particle that might be created by the processes above). That last, the creation of wormholes might even explain dark matter in with general relativity and may even bring to quantum entanglement in the sense. This is because of the nature of a wormhole is to have two parts of space be connected almost instantaneously because the speed of light is no longer a barrier to breach. Another thing that might be explained this concept is the between quantum gravity and general relativity.

2. Methodology

The process by how this works is by the rotation of the mercury in the system. This is because mercury electron shell configuration has a f sub shell that attracts easier to the nucleus in turn making electron capture and positron emission possible [*17]. That by rotating mercury the mercury and or mercury vapor, the electrons in the mercury first go under electron capture [*18] then positron emission due to electromagnetism caused by current that builds up an electrostatic charge [5] because of the spin of the electrons in the mercury are moving in rotation. This can be used to create positions for the gamma rays need for creating a quantum fluctuation on time/space or electrons for the same process [*19][6]. This can be diverted to create an electrostatic field outside the ship causing corona discharge or the Biefeld- Brown effect. Also, the electrons can be diverted back into the drive causing the electron capture to increase voltage so as to change the process of electron capture to positron emission because of the higher amount a current now being put into the process. This is called electron capture with positron emission. All of this is because positron emission is caused by weak nuclear force that is mediated by electroweak interaction that is caused by high levels of electromagnetism when caused by massive energy, in this case, high voltage to cause an increase in the speed of the electrons magnetic moment (rotation of the electron its axis) and Hall effect that creates current that thus creates a higher electromagnetic field. These can be used with the electrostatic field to start the chain reaction of electron/positrons being creating and their annihilation thus making gamma rays on time/space. So all one has to do is start mercury rotating or vortexing in a containment system of some sort by high voltage current. One can do this by creating a center column in the middle of a ship or by creating a torus that has mercury in the middle that vortexes or rotates by applying high voltage to move the mercury

because the mercury is magnetic. Each creating magnetic fields, due to its rotating magnetic field, that also bend the gamma rays toward the center of the ship creating a more focused area on time/space (as to meet the requirements of a Planck's mass or Schwarzschild radius), or one could use the electrostatic fields of positrons and electrons the surround the ship. Because of the Biefeld-Brown effect the electron energies themselves without the gamma-ray production could cause quantum fluctuations that create electron/positron pairs to begin with. This is because acceleration of electrons causes an increase of energy in the area in which it is accelerating. Two other examples of mercury vapor going the radioactive decays above (electron capture and positron emission) one: mercury vapor lamps the voltage applied to the vapor causes it to ionize and release UV rays. Just as in electron capture high energy photons are released along with electrons that ionize the mercury though at the low energies the vapor never reaches positron emission or electron capture state. The other example is professor Nakoagas experiments with high voltage and mercury vapor in the 1920 Japan that caused the vapor to turn to gold [8]. Vortexing or rotating the mercury may up the electromagnetism and you will get more positron emission and electron capture with less voltage. The important thing to remember here is the more electrons there is, or more acceleration due to the acceleration of the electrons the more of a fluctuation on time/space is going to make. It has also been shown in recent experiments that the high voltage of lighting makes quantum fluctuations that create electron/positron pairs also.

There is two ways a test to see if the concepts above can be tested a developed into a ship that could create wormholes and or go the speed of light (cause superluminal travel) One would start by taking an steel (or other conductive metal) torus (steel is the best because the mercury won't make an alloy with it) that is hollow in the middle (size and amount of hollow space in the torus is dependant on how much mercury you would need for a trip and how large the mass your trying to move a superluminal speeds). Next, you fill the torus up with mercury and seal it. After you do that you wrap coil around the torus in the shape in which will rotate the mercury by electromagnetism keeping in mind how much amps and voltage you are going to need to move the mercury by electromagnetism in the torus to create the electron capture and positron emission to happen. For positron emission to occur the electrostatic charge is going to have to be in the low MeV range to cause enough energy to cause the emission to occur as stated above in the reference to pair production and in the reference site of positron emission. The more mercury and thickness of the torus the more windings you'll need and the more amperage to magnetize the mercury in the torus and cause a reaction to the mercury. The high voltage is to get the vortexing or rotation of the mercury in the torus to high revolutions for the electron capture/positron emission or in other words the high electrostatic field to be built from the rotation. The Navier Stokes equation with the Momentum equation [*20] can help determine the energy needed for this process. Separate the torus and the coil needs to be a capacitor array powered by some other source to start the current in the coil and to be used a propulsion by the Biefeld-Brown effect by causing magnetic fields to propel off the corona discharge

and or electrostatic fields being created by the electrons and positrons, that can later be powered by the chain reaction of the electron capture/positron emission releasing electrons and positrons by either making use of the gamma rays being produced or the actual electrons of the system being captured and put back into the system. This systems magnetic fields from both the coil and the mercury torsion in the torus will also focus all transmissions, thus energy, in the middle of the torus so as to confine it in a small space to be closer to a planks mass. This is done because the magnetic fields bend light. Though the same effect may occur just by use of the gamma rays outside the ships and or surrounding the ship. The metal of the torus should cause electrostatic fields of both electrons and positrons for the reaction needed for bending of time/space., as both electrons and positrons can make a corona discharge. The second method is about the same but uses the capacitor plates and initial energy source to power a Tesla coils that puts out the corona discharge and to power a coil around a center column of mercury or mercury vapor that vortexes and rotates the mercury from the top of the tube to the bottom where the mercury collects and another coil vortexes back to the top to make a continuous action with the tube connected a electrical brush to divert the electrons and positrons to where ever you need it in the system and to a circular conductive plates around the ship. In the first method with the torus, the mercury will vortex and rotate in and out in the torus due to the coils inducing low and high electromagnetic fields for creating both electron capture and positron emission where at the same time recycling the mercury back to the top of the system. This can be done by wrapping the coil around the torus-like a solenoid or putting it in the configuration of a Rodin Coil[8]. To increase the quantum fluctuation on time/space by creating more electron/positron pairs from the virtual particle and or Dirac Sea all one has to do is increase the voltage in the drive controlling electron capture/positron emission to have more a reaction where more electrons and positrons are emitted. The reason higher voltage is necessary is that the electrons rest state only has asset amount of magnetism due to charge plus you need more momentum to get full use of the electrons angular momentum to cause the reaction. Some electrons in the nucleus of the mercury will spin in toward the nucleus because they have an up spin, while others will spin out from their shells to higher energy levels and eventually away from the nucleus all at the same releasing photons from electron converting to higher shells in the atom and other electrons in the atom absorbing electrons and thus moving in closer to the nucleus.

If one wants to use the gamma rays produced by the system as an energy source for anything in the system triangular pyramids made of homolite could be attached above and below the fluid dynamic torus with photovoltaic cells, that block out infrared light (so as to cut down on heat), attached to lutetium scintillator material, so as to absorb the gamma rays and turn them back into current, or at least some of the gamma rays back into to current to be regenerated back into the system for other uses. Nuclear reactions other than the positron/electron reaction can be used to start the system up or for powering other parts of the ship. One other note. A coolant of some sort may have to be incorporated in the mercury to make a mixture to keep the mercury from turning

into a vapor so that one can get the most electron capture/positron emission from the mercury.

3. Result, Conclusion, and Claims

If the system works, an Einstein-Rosen can be created and a device or ship can fly through it. That this concept can also be used to make anti-gravity devices, other forms of energy sources, and other technologies as well. Setbacks are the amount of power needed, the amount of radiation created and heat that the system causes plus the health risk associated with travel at these speed in which an inertia drive might have to be created. This of which may be possible by creating magnetic fields that increase or decrease in gauss and Tesla, in front of the living quarter/control part of the ship and in the back of these areas, that increase and decrease in field strength as the ship increases speed or decreases speed, to create the sense of no acceleration, thus no $F=ma$ upon the crew or aka g-force. There might also be the factor of the change in the variants of gravity making the ship weigh less thus no g-force would be felt as the same in the conceptual IXS enterprise. Another factor is the health risk of exposer to gamma radiation. Cost is another factor because some of the materials used are expensive, are rare minerals or production of the system as a whole is expensive and this is just for the propulsion and power part of the system without a trajectory system, life support, control center part of the device/ship, etc. included. One last factor is of a personal one with funding a access to test this concept because I have no funds or access to resources because of my lack of education and access to any institutions, and because Im on the federal welfare system due to a disability thus no funds to test the concept.

References

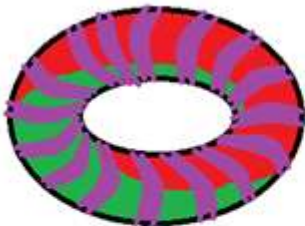
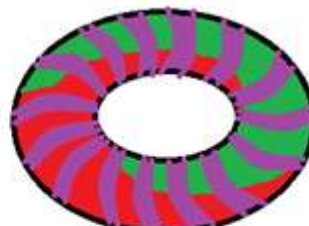
- [1] https://en.wikipedia.org/wiki/White_hole N.J. Poplawski (2010) "Cosmology with torsion" An alternative to cosmic inflation, Physics Letters B 694 (3) 181-185, White hole (reference 12), Wikipedia, accessed 2016.
- [2] <https://plus.google.com/110321252195532535450/posts/6fLJoA32Mv1> Ken Lee Wheeler, Uncovering the missing secrets of magnetism, 3rd Edition, Darkstar publications 2014, accessed 2017
- [3] <http://www.sciencemag.org/news/2015/10/physicists-observe-weird-quantum-fluctuations-empty-space-maybe> Adrian Cho. Physicists observe weird quantum fluctuations of empty space-maybe. Science October 1, 2015, accessed 2018
- [4] <https://arxiv.org/abs/1706.04153> D. Del Sorbo, D.R. Blackman, R. Capdessus, K. Small, C. Slade-Lowther, W. Luo, M.J. Duff, A.P.L. Robinson, P. McKenna, Z.-M. Sheng, J. Pasley, C.P. Ridgers. Efficient ion Acceleration and dense electron-positron plasma creation in ultra-high intensity laser-solid interactions. June 13, 2017. Arxiv.org, physics. Cornell University Library accessed 2018
- [5] https://www.tohoku.ac.jp/en/press/mercury_flow_generates_voltage.html R. Takahashi, M. Matsuo, M. Ono, K. Harii, H. Chudo, S. Okayasu, J. Ieda, S. Takahashi, S. Maekawa, E. Saitoh. Spin Hydrodynamic Generation, Nature Physics 12, 52-56, 2016, accessed 2018

- [6] <https://socratic.org/questions/when-does-electron-capture-occur-instead-of-positron-emission> Ernest Z. When does electron capture occur instead of positron emission? Socratic. October 3, 2015. Accessed 2018
- [7] http://www.levity.com/alchemy/nelson2_7.html Robert A Nelson. Adept Alchemy by Robert A. Nelson, Rex Research. 1998. Accessed 2018
- [8] <http://rense.com/rodinaerodynamics.htm> Russell P Blake, Marko Rodin, Rodin Coil, RodinAerodynamics.org, accessed 2017

Footnotes:

- *1. https://en.wikipedia.org/wiki/Wormhole#Schwarzschild_wormholes, the Wikipedia contributors, Wormhole, Wikipedia free encyclopedia, accessed 2016
- *2. https://en.wikipedia.org/wiki/White_hole the Wikipedia contributors, White hole, Wikipedia free encyclopedia, accessed 2016
- *3. https://en.wikipedia.org/wiki/Alcubierre_drive the Wikipedia contributors, Alcubierre drive, Wikipedia free encyclopedia, accessed 2017
- *4. https://en.wikipedia.org/wiki/Black_hole_starship the Wikipedia contributors, Starship, Wikipedia free encyclopedia, accessed 2017
- *5. https://en.wikipedia.org/wiki/Dirac_spinor the Wikipedia contributors, Dirac Spinor, Wikipedia free encyclopedia, accessed 2016
- *6. https://en.wikipedia.org/wiki/Micro_black_hole, the Wikipedia contributors, Micro black hole, Wikipedia free encyclopedia, accessed 2016
- *7. https://en.wikipedia.org/wiki/Compton_wavelength the Wikipedia contributors, Compton wavelength, Wikipedia free encyclopedia, accessed 2016
- *8. https://en.wikipedia.org/wiki/Schwarzschild_radius the Wikipedia contributors, Schwarzschild radius, Wikipedia free encyclopedia, accessed 2016

- *9. https://en.wikipedia.org/wiki/Quantum_fluctuation the Wikipedia contributor. Quantum fluctuation. Wikipedia free encyclopedia. accessed 2018
- *10. https://en.wikipedia.org/wiki/Two-photon_physics the Wikipedia contributors, Two-photon physics, Wikipedia free encyclopedia, accessed 2016
- *11. https://en.wikipedia.org/wiki/Pair_production the Wikipedia contributors, Pair production, Wikipedia free encyclopedia, accessed 2016
- *12. https://en.wikipedia.org/wiki/Center_of_mass the Wikipedia contributors, Center of mass, Wikipedia free encyclopedia, accessed 2016
- *13. https://en.wikipedia.org/wiki/Electron_rest_mass the Wikipedia contributors, Electron rest mass, Wikipedia free encyclopedia, accessed 2016
- *14. https://en.wikipedia.org/wiki/Dirac_equation the Wikipedia contributors, Dirac equation, Wikipedia free encyclopedia, accessed 2016
- *15. https://en.wikipedia.org/wiki/Hawking_radiation the Wikipedia contributors, Hawking radiation, Wikipedia free encyclopedia, accessed 2017
- *16. <https://en.wikipedia.org/wiki/Gravitoelectromagnetism> The Wikipedia contributors, Gravitoelectromagnetism, Wikipedia free encyclopedia, accessed 2017
- *17. [https://en.wikipedia.org/wiki/Mercury_\(element\)](https://en.wikipedia.org/wiki/Mercury_(element)) The Wikipedia contributors, Mercury (element), Wikipedia free encyclopedia, accessed 2018
- *18. https://en.wikipedia.org/wiki/Electron_capture The Wikipedia contributors. Electron Capture. Wikipedia free encyclopedia accessed 2018
- *19. https://en.wikipedia.org/wiki/Positron_emission The Wikipedia contributors. Positron Emission, Wikipedia free encyclopedia. accessed 2018
- *20. https://en.wikipedia.org/wiki/Navier%E2%80%93Stokes_equations The Wikipedia contributors, Navier Stokes equations, accessed 2018

Diagram 1:**Top
of Torus****Bottom
of Torus**

Fluid mix swirls outward to inward on top (red) then inward to outward on bottom while the same fluid mix swirls inward to outward on the bottom (green) while it swirls outward to inward on top. This is because of the current in the rodin coil (purple) that produces magnetic fields that control the fluid mix while inducing charge in the fluid.

Author Profile

Jonas Tyler Doran, 38 year old from Barberton Ohio. He has studied psychology and Physics at the University of Akron but Im unaccredited. He got into the concept of unusual space propulsion with the

dream of creating space travel like in the fictional TV series "Star Trek". That with the dream of becoming like Captain Kirk. He can be contacted at drmario5237@gmail.com