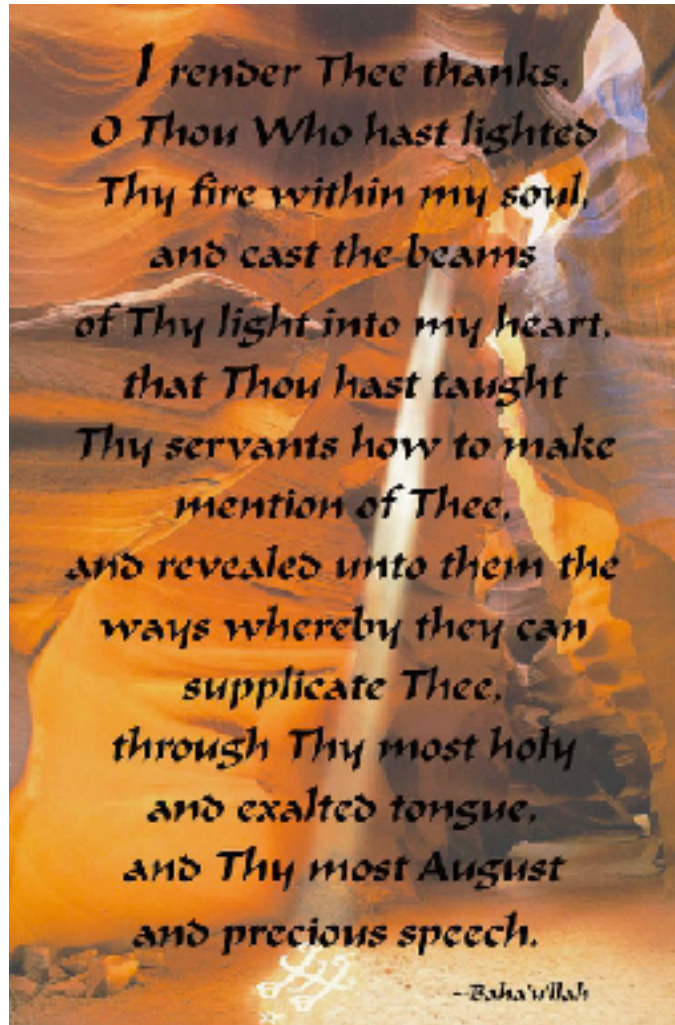


2) Truth ⇔ Light ⇔ Conscious



Parallels = Physics

Mea culpa, no other or institution is accountable for this student work.

The Medium of permeability interlaced to permittivity, of time laced to space, allows light propagation. What pre-existence causes emission?

It is incumbent upon them who are in authority to exercise moderation in all things. Whatsoever passeth beyond the limits of moderation will cease to exert a beneficial influence. ~ Bahá'u'lláh

Nothing to excess, Oracle of Delphi. Choose the balance of reason as standard for analysis of divine and physical reality, sorting each thing to its kind.

I say unto you: weigh carefully in the balance of reason and science everything that is presented to you as religion. If it passes this test, then accept it, for it is truth! If, however, it does not so conform, then reject it, for it is ignorance!
‘Abdu’l-Bahá, Paris Talks, p. 144

This thesis, examines the propulsion and unfolds a concept for ignition of light as electromagnetic wave in the context of physics and religion. The Divine manifests in the physical and in physics. Science is a structure that is built on the truths and understanding of current and previous generations. This gives a structure integrity. Religion is built on the truth and understanding of current and previous revelations. This gives the structure of religions truth and integrity. Both are essentially progressive as the audience is progressive.

Understanding this article will be easier with high school physics and math being known. There are references to calculus; the math herein is ideal, conceptual, not computational. It is a sequel to another thesis 1) Separation of Space ⇔ Time. This

sojourn requires a boat of mind. As a boat separates air and water, the law of identity is required. A reality is what it is. Time is time; space is space; time is not space nor anywhere between. Matter, particularly, endures in space for a unique Planck cycle; It is space, not time, that it is limited by time. Time is limited by meaning. Space, though it be infinite, in an act of diminution, humility, involutes on itself paradoxically in recognition of eternity. The aspect of excluded middle as left oarlock aspect of non-contradiction as right oarlock. Time and space do have layered möbius relation by human perspective. However, an absolute truth: no moment ever returns. Every cycle is a new beginning. Every day a new day, every summer, a new summer, every life a new life. Cycles are merely human conscious mapping similarities to each other, but in the final analysis, uniqueness is an absolute characteristic of every created thing stamped by the singleness of the one Creator. This will be diagramed in 5) Information of All Events in Time Alternates Information of Every Location in Space.

The relationship of light and truth and conscious. Bahá'u'lláh and all divine scripture uses light as a metaphor for truth. This is similar to concepts, presented by special relativity, but it does not require the speed of light to be an ultimate constant. It requires truth to be an ultimate constant, not our understanding of it. Parallel to

this Bahá'u'lláh explains the truth with the metaphor of light shining on an object appears different than the light shining on another object because of the innate characteristic of each object, not the difference in the light that shines on each object.

This is also the relation of the divine truth. The truth is the same reality to all observers. It does not matter who the observer is, the observer's conscious, or what the observer has done or is doing; the Truth is the same. How it manifests itself as thoughts depends on the characteristics of the conscious that encounters it. Truth is absolute, our understanding is relative. If light's velocity is constant? Then our understanding of our velocity and light's velocity is relative.

That was the abstract. Abstracts normally serve the purpose of filtering, saving the reader time to determine whether or not they want to pursue the full article. In this abstract there is actually a additional type of filter, to keep those who have no interest in divine reality from being confronted by that for which they are not ready.

"Not everything that a man knoweth can be disclosed, nor can everything that he can disclose be regarded as timely, nor can every timely utterance be considered as suited to the capacity of those who hear it." ~Baha'u'llah

Free will is ignorance of the Will of God. The light follows the Will of God; darkness does not know the way of light. ~ unknown

Steven Phelps, the Baha'i cosmology physicist, managed to convey through a short kind dialogue that light in divine scriptures is also a reference to conscious, which is eminently associated with truth. Light upon light, C^2 , as stated in the divine scriptures takes on a whole new meaning. The light of divine revelation upon the light of human conscious. C is the speed of light propagated as an electro-magnetic interaction, emanation of energy. Truth interacting with the wave of conscious propagates at the rate of will. In the Nader Saiede's Gate of the Heart he indicates the Báb associates a degree of freedom with every created thing. There is great beauty in this. The light of Divine teachings upon the light of Science knowledge and vice versa is symmetric conditional that both are subservient to conscious reason. Light of religion upon light of science upon light of conscious, C^3 , conveys as Primal Will, First Cause, reflection of the One constant purpose, to know the Creator.

"Can you cleanse your inner vision until you see nothing but the light? Can you step back from your own mind and thus understand all things?" Tao Te Ching

Permittivity is the characteristic of space that permits electric forces or fields to be expressed. Permeability is a similar essentially associated characteristic with a magnetic companion force or field. Their relationship to time and space has not been adequately explored. The examination of this relationship is going to be relationally and conceptually progressive.

Historically the relation of both, permittivity and permeability, was taken to be characteristic of space. The relation of these two characteristics is orthogonal, perpendicular, 90° ... in planar, two dimensional geometry. Further more, historically, they were thought to be radially orthogonal to the direction of travel but concurrent in time and space. This is a new time. We may think in three dimensional geometry. The electric field was visualized as a cosine wave traveling through space. The magnetic field also as a cosine wave was drawn as projected 90° to the side. This model advanced and limited our understanding.

As the reader steps into the rest of this article necessary to keep an open mind. Our current concepts of electromagnetic relationships is that of trigonometric continuity in space and time. An alternate perspective of that relationship is provided progressively in this article. Recent studies and articles cited in Nature, in "quantum measurements" within the "quantum realm", light in its own minuscule time frame, indicates that light is interacting with itself. It is interacting with its past is typically specified. So if light's present interacts with its past, then possibly it can with its future, since past and future are a matter perspective. This can indicate a discontinuity in light's space/time framework as we normally consider it by the authoritative, the objective, and normative perspectives that have been shared within our evolving science. But bear in mind as this proposal is examined, consider that vectors, when they are at quantum magnitude, within the realm or range of Heisenberg's uncertainty constant, then a vector may acquire a reflective direction (opposite) and an adjacent location in space. It is a little bit of Xeno's paradox that as a vector reaches a magnitude of zero that we perceive is direction is still maintained. This analysis allows us to realize that there is a purpose to electric fields and magnetic fields. Then, when the magnitude is zero, they still have purpose which is our concept of direction. Purpose may not be what we imagine because purpose is assigned to a phenomenon prior to it being created. So this thesis presents the possibility that direction changes at the zero point according to purpose rather than according to our mathematics.

The principle that something can occur in one location that can cause an effect in another location is a direct expression the Primal Will. This is very important and understanding the reality of physics. There are things sequenced by time, by temporal sequence. There are things that are sequenced not by time. They are sequenced by Will such as divine will such as as free human free will. Human experience knows, there at the moment of person dies someone who loves that person maybe cognitive of that event, even though they're 20,025 kilometers away. This is reality. Materialistic Physics can pretend such events is not a part of human, perception, cognition, experience, experimentation. But if we open the door and recognizes that there are connections that are transcendent of time then we can talk about a new physics. This is what Carl Jung and Wolfgang Pauli attempted to introduce to humanity before we were ready. They coined the term synchronicity. An indication that physical

phenomenon can occur outside of the boundaries of time sequence.

We can understand entanglement of electrons is a sign of divine Reality. There are continuous evidences that the Creator participates by Primal Will with the Creation if we choose to see. As the reader steps into the remainder of this proposal it is helpful to perceive that the relationship of time and space manifested by electromagnetic relation is, as the physicists, propose foundational to understanding the structure of the physical space of the universe and its relation to the eternity of non-physical time.

So we will first proceed with an explanation of the propotion of light in the framework of traditional physics models.

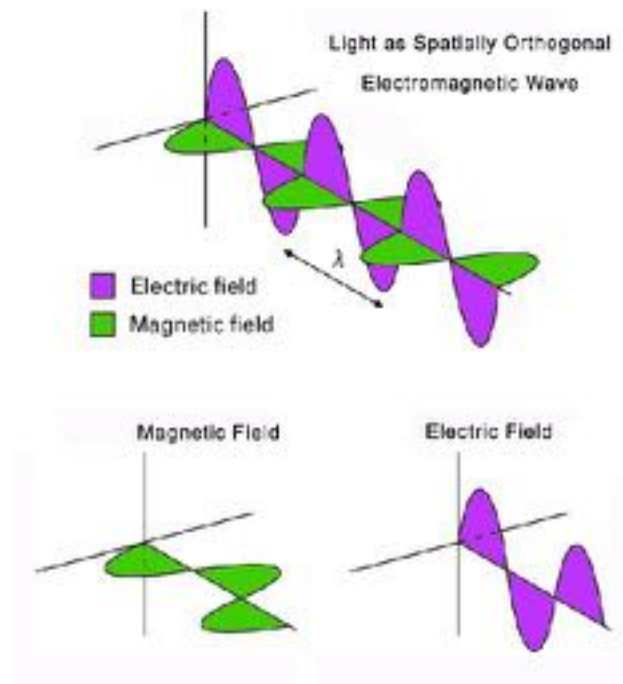


Image A

How ever, after separating time and space in the previous paper, 1)**Separating Space $\leftrightarrow$ Time**, permeability a intellectual reality, can be perceived as a characteristic of time, another intelligible reality, that invokes, induces, a magnetic flux projection in time by a change in an electric field in space. Then projection, the relation of these two characteristics is orthogonal, 90° , perpendicular into the future, aligned to the direction the light is traveling.

Recent research of light interactions within a single cycle suggest that light interacts with its own past. This article proposes Primal Will as time projects to the future in space as the creative process. See

Nature (Physics), **Double-slit Time Diffraction at Optical Frequencies**. It is interesting that the assessment of those who wrote the article for see that light is interacting with its past. This is a matter of perspective. This article is actually looking at the Primal Will acting by permeability interacts with what is being created, what is to come. A different perspective, but very important that space is derived of time. We perceive the past; Primal Will perceives the future also. By looking through the eye of the Manifestation (His writings) we can see the creative process occurring.

So perspective can be binary. If light interacts with its past. Then light interacts with its future as well. Since the present light is the past of future light. This expresses, why light is the physical phenomenon that is the "most manifest of the manifest and the most hidden of the hidden". This is why revelation is equated to light, and this is why knowledge is equated to light. Light is the ultimate standard of the physical world because it allows interaction to the eternal world, which is timeless.

It is helpful to remember that *permeability* of time is to store energy in time by inductance and *permittivity* of space to store energy in space by capacitance. The names picked by our forefathers was very helpful. Bearing in mind, that both of these are a type of grace, an allowance, a tolerance, permission to be. Permeability induces into the future, the reality of energy from our past. Permittivity creates a capacity in space for the energy to be sustained in the present. The linkage between these two are the linkage between constancy as contingent perpetuity (determination) and possibility as contingent present (permission).

Capacitance: When you walk into a classroom, sit down, and perceive that the teacher is a person like you doing the best they can to convey knowledge which is a challenge of the extreme degree. Having a connection to see the teacher as your self doing the teaching, this will allow you to actually understand the information and assimilate the information. Your heart and mind are open. The heart can grasp what reason and logic can not. It is a spiritual event that occurs.

Inductance: When the teacher walks into the room, it looks in the eyes of the student and sees themselves, and then tries to convey the knowledge with that perspective, the success of the teacher is much more profound. Learning and teaching is a spiritual experience. It is in reality based on the principle of oneness that the Manifestations have been teaching us. Teachers bear a name of God for a reason. God is teaching us at all times at all places. Sometimes we, consciously, perceive the Teacher in the Classroom is ourself; this is

permitted by free will. In truth, we are a reflection of the One.

This thesis has a paragraph that requires tolerance. "Time is time; space is space; time is not space or anywhere between." The aspect of excluded middle as left oarlock and the aspect of non-contradiction as right oarlock. Erwin Schrödinger suggests if we never contradict ourselves it is because we never say anything. There are those who say space is time, perhaps once removed, one derived of the other, space derived of time.

Conversation with Gerhard Müller, the physicist-teacher suggests a mathematical relation of time to space could be proposed. Perceiving time as eternity, continuous, the Primal Will. Perceiving space as the Primal Will, discontinuous in relation to time, then space can be examined as the derivative of time. Motion being relationship of time to its derived self, as space. `Abdu'l-Bahá indicated in His Commentary on the Hidden Treasure tradition that the Creator created the Primal Will out of Itself. This is parallel to cosine is derived of Sine.

Modified from Maxwell's equations:

$$\begin{array}{lcl} \vec{E}(x, t) = E_0 \sin\left(\frac{2\pi x}{\lambda} - 2\pi f t\right) \hat{y} & \longrightarrow & \vec{E}(x, t) = E_0 \cos\left(\frac{2\pi x}{\lambda} - 2\pi f t\right) \hat{y} \\ \vec{B}(x, t) = B_0 \cos\left(\frac{2\pi x}{\lambda} - 2\pi f t\right) \hat{z} & & \vec{B}(x, t) = B_0 \sin\left(\frac{2\pi x}{\lambda} - 2\pi f t\right) \hat{z} \end{array}$$

Apo calyp sin, Apocalypse reveal

Apo: away from, before, above

Calyp: hidden, (calip)measure

Sin: Sine, sign "it is true," i.e. "the sin is real"

Cos: complement as true as with the orthogonal being true.

Physics does not explain the cause of EM emission. Gerhard Müller helped this student understand that continuous eternal time sin vector is on the left. The instantaneous state of the eternal vector field of the wave, the derivative of sin vector to cos vector, on the right. The right is the accepted perceived standard in physics. This is not the perspective of this paper. Right side, the calculus derivative, results in a $\pi/2$ phase shift resulting in the cos transmutation on the right above which is the current view, instantaneous travel status. The frame we need is cause as continuous eternal, time on the left, not the instantaneous derivative on the right. The goal is to improve understanding of the First Cause. Time, actually, is continuous in relation to space, not a stack of nows. Because we perceive time as a separation between events, by meaning, by association to motion, we perceive and measure it in segments, seconds, ms, nanoseconds, and Planck units. We use the derivatives to make calculations to make predictions, not to see things

as they are - eternal. The now, the segment, is merely a filter to allow analysis and assimilation of experience in and of particulars. It is how we learn----baby steps, or maybe high school steps.

Perception of the Primal Will, as continuous, that perception is the balance. We have tweaked our perception of time by applying the process of derivatives for instants to allow computations that is time physical instants. This allows us to make predictions in time. Isaac Newton perceived that he was an agent of God for his day. He was. What he predicted became so. Isaac Newton still is genius; we honor him. How ever, he, unintentionally, hid the continuity of time from us. This is a New Day, a new reality on Oneness is revealed. Just investigate Bahá'u'lláh's revelation, paradoxically, for your individual understanding.

The purpose of Arche electron is to absorb and distribute light. The Primal Will is a great teacher. Primal Will, time, is the $\pi/2$ phase shift anterior to and provoking emission. The mathematics, sin-cos, is an visual analogy.

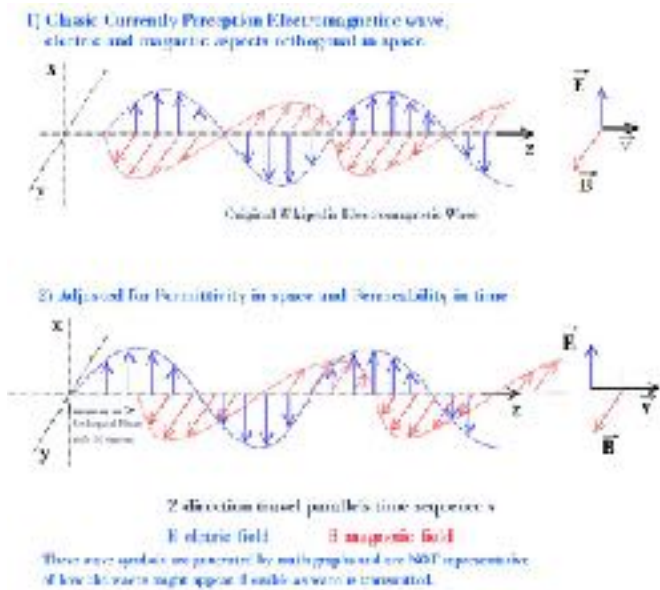


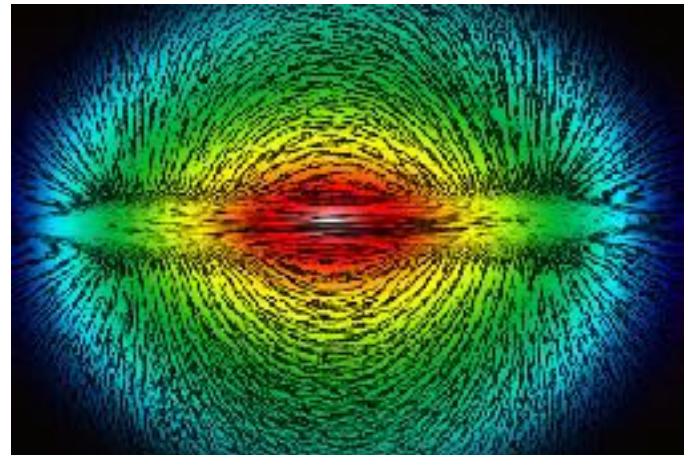
Image B

This analogy proposes the Cause of emission and propulsion. The second portion of the above Image B shows that the magnetic wave is still orthogonal in space. This also allows visual differentiation not merely, to represent the orthogonal aspect being re-examined. The important feature shows the projection by permeability; the wave is emitted forward in time, by sin-cos relation.

This is a very odd image, because in fact, the electric field begins from essentially a magnitude of zero. As it is traveling along, the electric field,

increases in a spherical radiation till it reaches 90° is full manitude, and then it begins to diminish as a spherical radiation. At 180 degrees it it again is magnitude of zero. It then it goes negative as a spherical radiation, reaches its full negative magnitude at the cycle of the, 270° mark and then it begins to diminish back to zero. Electric fields from point sources do not look like sin waves on an oscilloscope. The images we rely on is only a graph of magnitude. As that is as misleading visually as the orthogonal aspect in space was misleading. These graphs helped but also limited our understanding of the EM wave and how it was propelled.

If we could see the magnetic field begin and go through its cycle, perhaps it could have a similar appearance to lines of flux as magnetic field. You've seen the curvature and behavior of lines of flux when you played with a magnet with iron fillings as a child.



So a magnetic field as opposed to an electric field, which could look like a sphere of lightning? Maybe.



We really do not know how they appear. But you can bet your next paycheck they don't look like sin waves. So as these drawings are examined. It's important to have a clear understanding that you

cannot actually make a real drawing of something that is too small to be seen. Dr Paul Dirac did not use drawings in his articles discussing his physics. And this is very rational and reasonable because that you are in-fact conveying relationships that are not sensible except to the intellect, and therefore, they cannot actually be identified or accurately represented by any symbols in the physical world such as a two dimensional drawing, accept by analogy. He used only math as the analogy. So when we create two dimensional drawings in physics to represent a phenomenon, that drawing is symbolic, that drawing shows visual characteristics related to the reality, how ever, some drawings could be more accurate, faithful, closer to the reality being presented than other drawings, therefore, more pleasing.

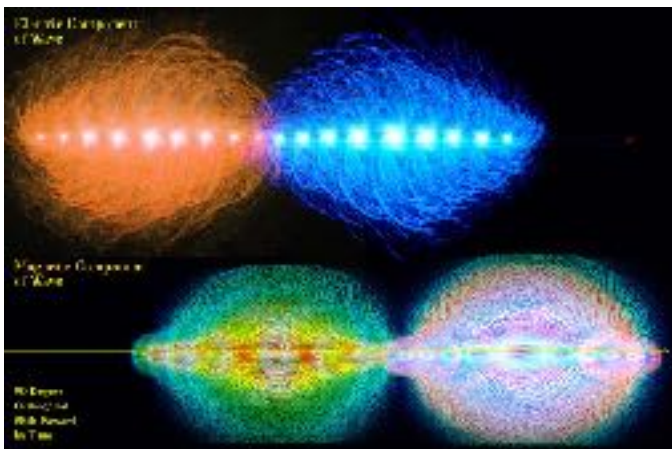


Image C

In Image C, the upper and lower axes above are the same axis. Here separated to allow a more exposed pattern of each wave form. The change in the electric field (red/positive above) creates an orthogonal forward magnetic (green)field not in space, but in time. The magnet field forms 90° in the future. As this examination evolves so will perception of these relations.

How is it an event projects forward in and by time? A moment of reflection will make this self evident.

Will projects forward. This statement is the essential proof time is the manifestation of Primal Will.

Time and space on this voyage are still separate. They can be parallel, =, given the contingency. Left oar, left hand is permeability; right oar, right hand is permittivity. (This student harbors deep affection for boats, sea, and air.) Will as time, and Will as its derivative as limits, as quanta, as space is, as Stephen Phelps suggests, a cosmic dance. Dancing, skipping, and rowing well requires a

sense of timing, of rhythm. This students lacks timing and rhythm in re-cognizing to human knowledge of these relations. Restated, these theses may not be well timed.

In Image D below, the change in the electric field (red/positive) creates an orthogonal forward green magnetic field. The magnet field forms 90° in the future. The forward green magnetic field induces a negative blue electric field, which then creates a purple reverse magnetic flux. And that purple magnetic flux creates the red positive electric field ignition of the next cycle. Because that "cycle", that, time, that event is complete in itself. There is no true duplication except truth itself, with the eye of oneness, it is all true, it is all one.

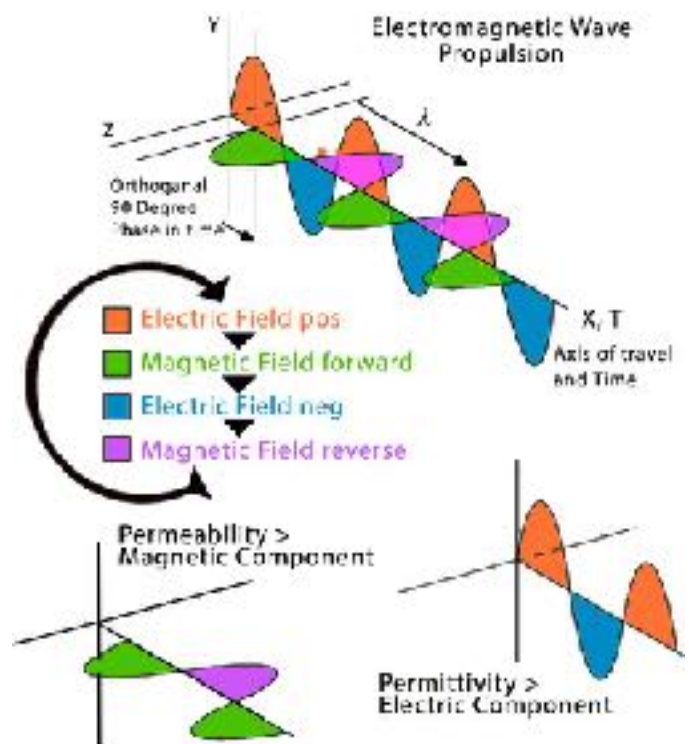
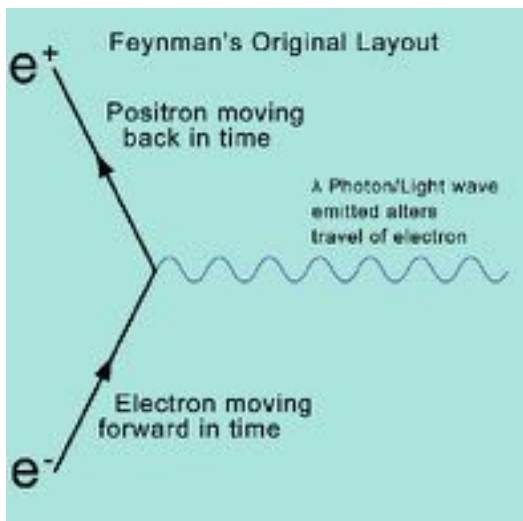
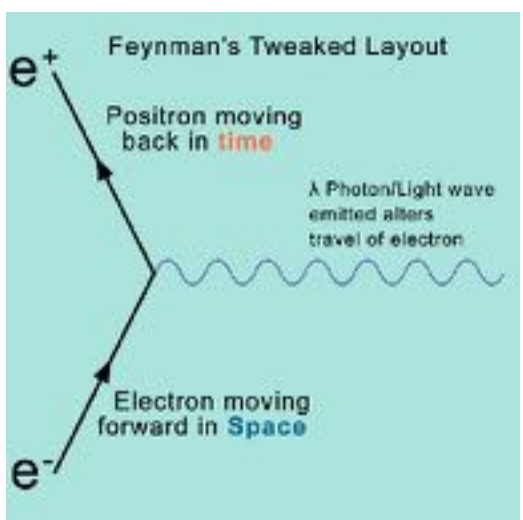


Image D

Image D is helpful and shows the progression of the electromagnetic wave in time. How ever, time and space are a little more complicated. The Richard Feynman diagrams clearly indicate that negative electrons are going forward in time(space) and that's the reference. We now take, therefore, positrons are going back in time. Negative fields forward in space; Positive fields back in time, past.



There has to be consistency or no relativity, no relation, and therefore no relevance. However, it seems that Richard's diagrams need to be tweaked just a little bit to match what's unfolding in this discussion.



So using Richard Feynman's model, the electron becomes a positron⁺ by perspective change. The outer reality becomes the inner reality. It is very helpful. To perceive the electron⁻ is traveling in space and the positron⁺ is traveling in time as a powerful model. There, we can perceive that the electron⁻ is a particle of time traveling in space and the positron⁺ is a particle of space traveling in time. As this particle involutes or penetrates through the boundary between space and time, it creates what we perceive as a wave. A disturbance creates a manifestation, a sensible event, as energy. All manifestations of waves physical and spiritual phenomenon occur at a boundary, eg air, wave, water. The energy (heat), manifested is at the surface, at the boundary.

As an extension of this analogous thought, the wave of faith occurs at the boundary between

Manifestation and believer. 'Abdu'l-Bahá would be a fixed wave in this model. Back to physics.

By the propulsion of light, time and space are parallel axes, with the contingency. This may seem as a small distinction. However, the identification of containers, with finite "surface area", of time and space, with their unlimited "volume", becomes maximally apparent in another paper, 5) Containers of Space and Time.

So does light pass through space as a photon, a particle, and then pass in time as a wave, an event? Is this the alternation between space and time, the dual reality of particle and wave? Is this the alternation between the Primal Will, just as it was created out of Itself which Báb stated and 'Abdu'l-Bahá expounded? Possibly. The photon as a wave or a particle is further explored in **28)**

Bounded First

Contained Last. But one thing will become clearer is that there are more than photons that we have to align in a split time and space. There is the Arche Electron and the Arche Positron where by space is created out of time and reflects back to time, time itself as confirmation.

To better understand how it is that time is not the source of vectoring, just consider the space is not vectored in reflected relative (-180°) direction until there's motion, interacting space and time, as a unified event then space is vectored, and time is vector. But both of these are effectively vectored by the purpose of the motion, not by an innate, characteristic of time or an innate characteristic of space. So re-examining Richard Feynman's diagram, the electron is moving forward in space where with a purpose of emitting light, distributing energy in space, into the universe. Once this purpose is fulfilled, it returns from whence it came.

Further exploration of propulsion the quantum of 4π is required, 2π in space and 2π in time intertwined. Quantum mechanics and computation is clear in that 4π is required for a completeness, 2π in time 2π in space.

Orthogonal to the axis of travel has four solutions: where it is in time, $\pi/2$, or $-3\pi/2$ and where it is in space, $-\pi/2$ or $3\pi/2$.

This is the solution for our vector of conscious, net propulsion forward in time, as the cause of propulsion of an EM wave, 90° forward or back in time and 270° forward or back in space. The next image, Image E, is very active and interlaced, the warp and woof of the fabric. If it seems daunting to examine and understand its implications, this student shares your feelings.

Permittivity and permeability are teaching us about who we are in very clear terms. If you examine the relationship, you see that the permittivity is actually reflection of permeability and vice versa. Space is actually reflection to time $\Rightarrow$ reversed. Like the event of reflection in a mirror, the image is reversed and therefore we did not understand the process. In math and physics there is vectors and pseudo vectors, distinguished by the consistency of the vectors reflection. Perception. The reflection of permittivity to permeability demonstrates this, but what is more in the same way that when you stand in front of a mirror, your image is reversed. This is the reality of reflecting of who you are, if you examine your physical self and physical desires, your animal self, and animal desires it is reverse reflection of the divine spiritual self. furthermore, we are a reflection of the Creator, and all things are teaching us this. Our purpose is to reflect His light, His Image, His Names and Attributes reflected as virtues. He the All Powerful; we the powerless. He the Eternal; we the evanescent. As Socrates taught us by his words to deeds to know our ignorance is our deepest wisdom.

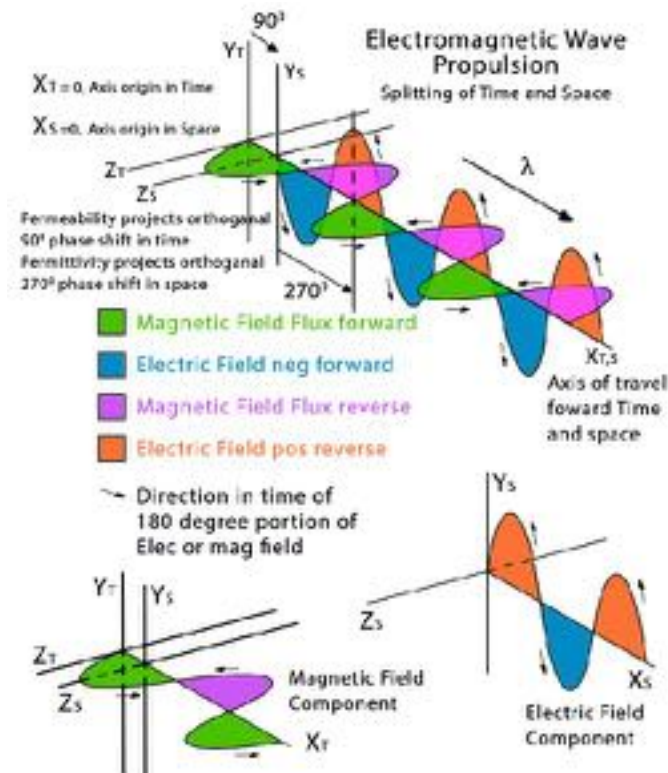


Image E, cosmic dance steps.

As the reader exams is this graph in right lower corner, can be seen at the zero , $\pi/2$, the electric wave splits and goes back in time as the equivalent of a a positron is going back in time. It also goes forward in time as an equivalent of the electron as a negative charge is going forward in

time. This relationship was eloquently described by Richard Feynman in his drawings. At a zero point the Creator can extract out of nothingness, 0 magnitude, two opposite realities, traveling, and opposite directions in time. But to fit the rest of quantum physics mechanics it's necessary to perceive that the negative charge exists in space separate from the positive charge existing in time. These drawings are analogies in the same way that Richard Feynman's mathematics are analogies. The relationships we are perceiving are intellectual realities. Intellectual realities do not exist in spacial, a physical form other than the Manifestation of God. When we understand this principle, then we can see everything in the world, every physical object is of itself a manifestation of divine reality. The Báb's and Bahá'u'lláh's writings profusely demonstrate this relationship.

Light as an event wave and particle of energy, not physical and physical realities, returning to the essential magnitude of zero is the remarkable confirmation of the statement that all of creation was and is made by the Creator from nothingness.

The following relations describe the evolving process an Image E.

By permittivity:

Forward magnetic (green) flux projects a negative electric (blue) field 90° forward in space as above Image E or further laid out in Image F below.

By permeability:

Negative electric (blue) field traveling in space projects a reverse magnetic (puple) flux 270° forward into time.

By permittivity:

Reverse magnetic (purple) flux traveling back in time projects a positive electric (red) field -90° back in space.

By permeability:

Positive electric (red) fields travels back in time projects a forward magnetic (green) flux 270° back in time.

A cosmic dance, just the steps are intriguing.

Like that photon, your purpose is to come into the world, into the universe, and radiate your virtues, your gift of light to the universe, to do your deeds and your actions, re-cognize your source, speak your words, and once you have completed fulfilling your mission, your purpose, your journey by becoming your best self then you may return to to the One. You are eternal at Her bidding. One is neither male or female. One is both male and female. One is both first and last. One transcends all limitations.

The the photon in space and the wave in time is the next evolution from that demonstrated in the Image E above but expanded in Image F. The 2π in time and 2π in space relation.

In the diagram above, there's a very subtle but important event that occurs at the 00 point. That is as the evolution of a wave form reaches zero it is occurring from a reflection of the opposite vector to zero. That is: the flow vectors show that as the event is occurring, it actually comes out of nothingness zero and returns to nothingness, which is zero. This is very consistent with sacred scripture. The rational proof is your conscious. Your conscious came from nothing at the moment of conception, and at the end of your life, your conscious of the body's senses returns to nothing. How ever, if your self became aware of your other self, the divine self, that awareness is not sensible, not in time and space, but in meaning and purpose and therefore eternal. This is a reflection of the flow of light. How ever, in recognition of our nothingness in relation to the One, we are, because the One defines us. We are binary, zero defined by the One.

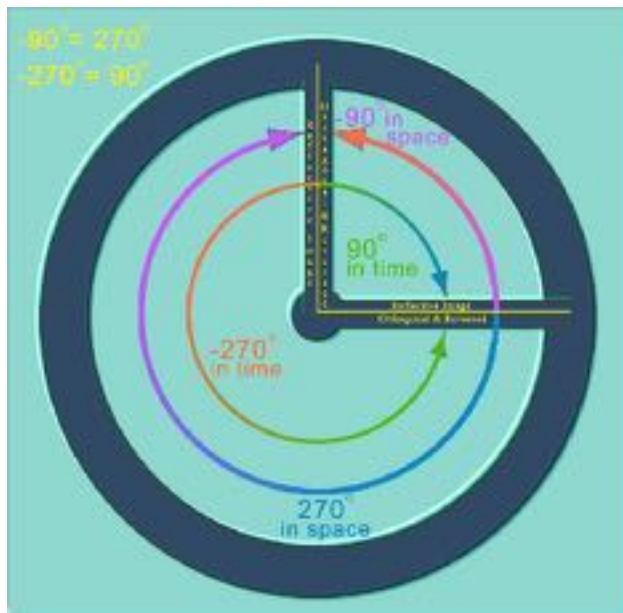
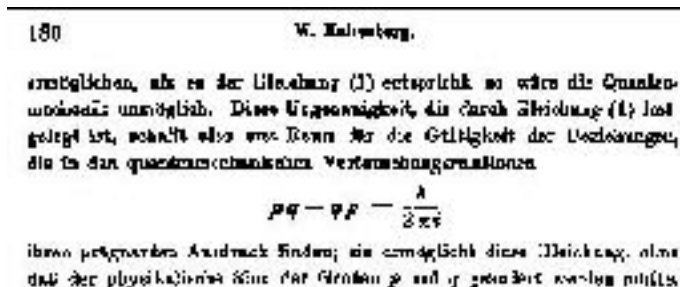


Image F

Two cycles is required for the emission and transmission of light.



Canonical computation rule for position q and momentum p variables of a particle, 1927. $pq - qp = h/(2\pi i)$. Uncertainty principle of Heisenberg,

Exact measurement of an EM wave in both spacial and temporal aspects of an EM wave has limitations. We cannot measure the electric and magnetic intensity simultaneously. This is because the $\pi/2$ temporal shift. This is why EM waves in the range of less than a single cycle, demonstrates an interaction of the wave with its own past, or its own future as a matter perspective.

Later Planck's constant was corrected to the reduced Planck's constant $\hbar = h/2$ allows for Schrödinger's equation. Fore there the corrected Heisenberg uncertainty $pq \cdot qp = h/4\pi$

In simple student terms the particle is one cycle in time ($2\pi i$) and one cycle in space (2π). The notation of imaginary time has been dropped simplifying to 4π . $\Delta p \Delta x = h/4\pi$

With the reduced Planck's Constant the range of error is reduced by a factor of two. How much is the particle located in space and how much is particle in time. Mass as a function of relational and intrinsic spin factors.

So we have stripped out the qualitative distinction between time, which Heisenberg included in his equation, added second cycle for a clean slick calculation that Erwin Schrödinger's equation allows for. When we delete data, like not telling the whole story, we are not telling the whole truth. The purpose of science is the same purpose of religion to find the whole truth. The reality is we need both. The problem is when you don't include the qualitative aspects of our understanding that is a very important aspect of understanding our existence in this world, our physics, our religion, our rights. It is like our beloved statement 'All men are created equal.' The qualitative portion that is necessary to understand that equation is that "By God, all men are created equal before God, whether or not they have a womb." So we trimmed things down until they are acceptable, until the reader says now I can agree with that, or the computa-tor says now I can make a measurement.

"This figure resembles another allusion by Bahá'u'lláh to the process of creation that hints at the mathematical basis of the universe along Pythagorean lines. He relates: '**Know then, that God, praised and glorified be He, took a line,**

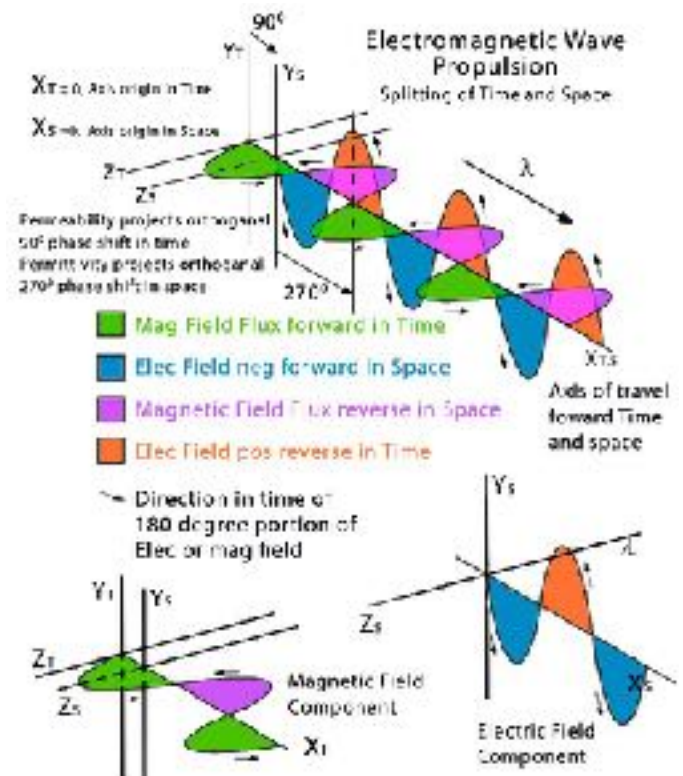
split it lengthwise into two, rotated the one about the other, and so made from them the universe. The line, however, formeth only from the point when you move it. Conceive ye then our meaning' (unpublished Tablet, Bahá'í International Archives)" Keven Brown https://bahai-library.com/pdf/b/brown_perspective_origin_matter.pdf

Interestingly, according to Keven's commentary, he suggests the elements coincide with four biochemical processes that preserve life: air (hot and moist) = oxidation, earth (dry and cold) = reduction, fire (hot and dry) = dehydration, and water (moist and cold) = hydration (Mahdihassan, Hamdard 20:77).

The observations of Empedocles regarding four elements hold much information. However, this student perceives the description better fits the relationships of "the age in which we live." So this student can perceive in Bahá'u'lláh description, the creation of the sine and cosine relationship that is demonstrated in the graphs of the emission and propulsion of light. Split the axis, rotate as sin and cos which are rotations shifted by the, movement, phase shift of $\pi/2$.

Quantum 4π is required to be complete data. 2π in space and 2π in time intertwined. It appears no net movement except, the event begins in time $\pi/2$ earlier, as a caused by Primal Will, First Cause, before it occurs in space, $\pi/2$, later. The splitting, staggering, and recombining gives a forward effect. Cause-effect, active force-recipient. We have movement.

Image G is Image E repeated and modified for time space inter weaving. See color code for evolution from previous.



There is odd half twist of $-\pi$ in time. Projecting by permittivity, from $0-\pi$ in space, on to the span $2\pi-\pi$ of time, a space to space bridging of the discontinuity of space, that this his student does not comprehend. It is parallel comparable to the $1/2$ twist of the Möbius. It is the grace extension from the $\pi/2$ to the $-3\pi/4$ phase transmutations in the squared circle of Image F. It allows for the simulation of cycles. Intuitively it maintains the unique reality of each creation expressed in continuous time. Intuitively the sin analogy of time derived to the cos of space is integrable at the half twist of $-\cos$ to $\sin$. The slide rule as a temporary name, left end meets right end, antique imaginary continuity.

So this graph image is not how the fields look but understanding the relations. The green magnetic wave forward flux begins in time before the event. The Primal Will the First Cause precedes the creation in space. The space, time $\rightarrow$, shift arrows indicated adjacent to the curve of the sin wave tells you which direction that segment of 180° of cycle is flowing as related to time or space. It occurs in the Primal Will. By permeability, the green magnetic wave forward flux projects orthogonal, 90° , into space the event of the blue negative electric field moving forward in space. By permittivity, the blue negative electric field projects, orthogonal, 270° , forward into time the purple reverse magnetic flux field. The purple reverse magnetic field is actually flowing back in time is indicated by the shift arrows along the sin wave the drawing. By permeability the purple reverse magnetic field projects forward in

space by its perspective, -90° by our perspective,
into space, the red positive electric field moving
back in time. By permeability, the red positive
electric field projects back in its time, forward to
our conscious, the green magnetic wave forward
flux. This functions as a cycle and has re-ignition.

Houston we have ignition and re-ignition.

Clyde Arthur Keys,
elderly high school student

1) Tablets of Bahá'u'lláh Revealed after the Kitáb-i-Aqdas
1817-1892, Lawh-i-Hikmat, Bahá'u'lláh

There is an alternate translation of the tablet, published in Persia as follows: "That which hath been in existence had existed before, but not in the form thou seest today. The world of existence came into being through the heat generated from the interaction between the active force and that which is its recipient. These two are the same, yet they are different. Thus doth the Great Announcement inform thee about this glorious structure. The two agents and the two patients are indeed created through the irresistible Word of God, which is the Cause of the entire creation, while all else besides His Word are but the creatures and the effects thereof. Verily thy Lord is the Expounder, the All-Wise."

Lawh-i-Hikmat: The Two Agents and the Two Patients by Dr. Vahid Rafati
`Andalib, vol. 5, no. 19, pp. 29-38
provisional translation by Keven Brown, 2002

The difference of translation being:

"The two agents and the two patients are indeed created through the irresistible Word of God"

⇔

"Such as communicate the generating influence and such as receive its impact are indeed created through the irresistible Word of God"

2) Newton's Translation of The Emerald Tablet is in this Wikipedia article.

[Wikipediahttps://en.m.wikipedia.org/wiki/Emerald Tablet](https://en.m.wikipedia.org/wiki/Emerald_Tablet)

So an interesting problem arises when divine Providence allows an individual to see things that are not seen by others. It is not necessarily suggested that individual share the knowledge that was given as a personnel grace. In the Words of Wisdom, there is a statement from Bahá'u'lláh that "The essence of true safety is to observe silence, to look at the end of things and to renounce the world." It is known that things that are not literally true can contain truth. So the Greek mythology of Oedipus the persona who is not viewed as the focus of error in that myth is actually the seers. The seer who told the King Laius what was to come and disclosed too much. The seer, the oracle at Delphi, with human ignorance, told Oedipus that he would kill his father, and marry his mother. This is crucial because the Manifestation reveals exactly what God wants us to know at the time, not too

much. Bahá'u'lláh washed the ink of some tablets in the river according to divine command. Humans will pray for the ability to see through time, see-through ignorance of things, and those prayers are answered. Bahá'u'lláh has given us guidance to observe silence is safety; that when we speak things that God has taught us that He is not taught others, it is not necessary that we should share them. They were a gift from God that we might understand that God loves us and teaches us. Should we share this personal knowledge before its time, it would have consequences for humanity and could be not so good as in the story about Oedipus.

Tags:

Manifestation, Bahá'u'lláh, the Báb, `Abdu'l-Bahá, cause propulsion of light, cause propulsion em wave, cause propulsion electromagnetic wave, permittivity, permeability in time, permeability of time, Baha'i, physics, space, meaning, time, purpose, separation space and time, space in time, primal will, first cause, harmony of science and religion, physics and religion,