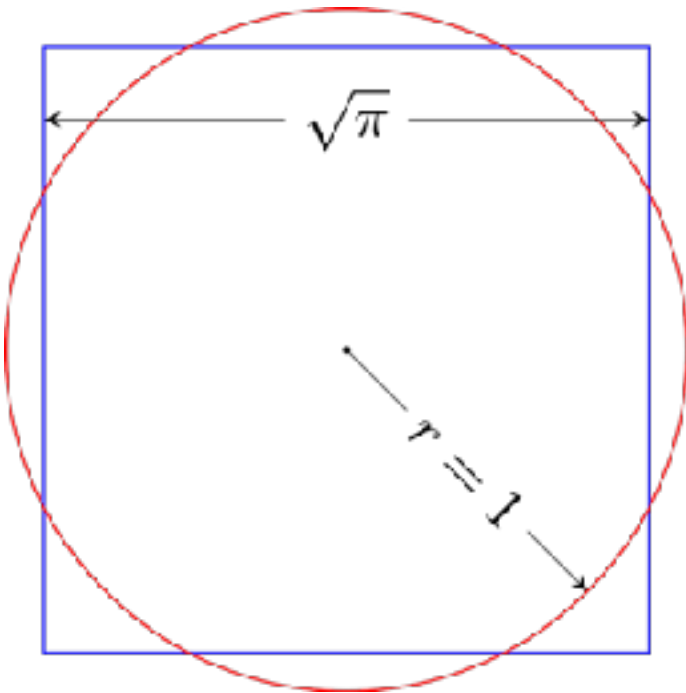


1) Separation of Space and Time



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

"Teaching the Dharma by the middle" ~Buddha.
Middle as the Medium

"God has given man the eye of investigation by which he may see and recognize truth. He has endowed man with ears that he may discover things for himself. This is his endowment and equipment for the investigation of reality. Man is not intended to see through the eyes of another, hear through another's ears nor comprehend with another's brain. Each human creature has individual endowment, power and responsibility in the creative plan of God. Therefore, depend on your own reason and judgement and adhere to the outcome of your own investigation; otherwise, you will be bitterly submerged in the sea of ignorance and deprived of all the bounties of God." ~'Abdu'l-Bahá, Promulgation Universal Peace

The beauty and the irony of the time in which we live is that we are in fact now in a sea of ignorance and a sea of knowledge. The Internet provides with us a sea of information available from so much of humanity. The irony is to examine the words that are being used by us and others then select the meaning you choose. `Abdu'l-Bahá is Arabic for

Servant of the Glory. The origin of Glory is a choice. By Etymology Online the origin of glory: "*The etymology as *gnoria "knowledge, fame" to gnarus "known" and i-gnorare has been acknowledged by some scholars, and rejected by others.*" So the distance between i-gnorare, knowledge, and i-gnortia, want of knowledge, is choice. That you choose what you know is sufficient unto you or do you want to understand what others think? So the powerful, beautiful irony is that if you choose to understand, and accept what Abdu'l-Bahá explains above, by listening to Him, you may understand what you know is sufficient to you and this will guide you through your life. Truth as a möbius with a half twist of choice.

This thesis examines the relationship of the understanding of physics and quantum collapse to divine teachings, how things come to be, and how the process of creative action occurs as a parallel to physics. It is to see the divine in relations of physics. By extrapolation this further enlightens us to our relationship to the One. It also examines a old proposal from a physicist about the generation of conscious, and how that can be explained in physics and religious terms.

There are theories in physics that allow for prediction of events, and thereby be proven once the events follow the theory, the relations can be translated allowing control over nature. There are theories that do not allow for predictions; they are theories that allow for understanding. There are prophetic truths and non-prophetic truths as binary. These understandings allow us to see our relation to ourselves, our context in the world, and understand who we are and thereby have better control over our own selves. When a large amount of phenomenon fits a theory, that may not predict something, but still allows us to understand relationships; then it is still valid. The theory is still fruitful. It is beneficial to understand that osmosis draws the water up the roots of a tree to the branches to the leaves. It does not help us much by prediction; it does not help us grow trees; but it gives the understanding of how trees grow. That understanding is its own beauty, its own joy, its own reason for being. Physicist Arthur Tave said "We learn by osmosis." It is not necessary to change the world by the theory (but he changed his students). Just as our understanding that the earth is spinning creating day and night, it is not necessary to alter the earth's spinning. Better understanding ourselves, better understanding space and time, and better understanding the relationship of science and religion, these would bring joy.

Quantum physics is based on recognizing the binary structure. An indeterminate state collapses to

a determined state. This is how all come to be. And if there is that which has quanta, then there is that which does not? Quantum physics summons this question. A binary question.

STAGES OF DIVINE CREATIVE ACTION:

1)WILL (MASHÍYYAT) Primal Will

2)DETERMINATION (IRÁDIH) Purpose

3)DESTINY (QADAR) Becoming

4)DECREE (QADÁ) Being

5)PERMISSION (IDHN) Perception

6)TERM (AJAL) Duration

BOOK (KITAB) Living/Written Book

~derived from Gate of the Heart and writings of The Bab

Causality

1) & 2) non temporal causality

3) & 4) temporal causality

5) limitation, contingency, requirement for occurrence by non-temporal causality.

6) limitation, contingency of temporal causality

7) binding, linkage, relational, of two binary sets of causality.

There is some confusion regarding the binary. The One is Singular. Reality created by One is binary. Human conscious reason originates from and conforms to this reality. Creator creation. The law of identity, of excluded middle, of non-contradiction. These are three aspects of one law of reason. These are from deduction not induction, a posteriori not a priori. A priori is from another Source. A priori derived by/from intuitive unconscious rather than rational conscious. Square as rational/relational; circle as from a "single point" as unity.

Fields are binary, field sources and derivatives, end point of source's purpose, field sink. Fields are relational, vectored - contingent on the limits, characteristics of relation, eg time's relation to space, no-thing-ness. The source identification contingent on the related properties, qualitum, of what is being measured, quantum. There is a field relation between zero and one. The field source is not binary in that it is not in space. The field itself is binary. The three aspects of above law, as an example, delineate the field. The One has no relation to zero. Zero is defined by the One, as is duality and multiplicity as qualitum. Two is defined by the One, duality and multiplicity as quantum. That is what vectors teach us. What boundaries created by derivatives teach us.

In a moment reflection, it can be seen that the structure of a circle compared to a square is a binary relationship. One is based on continuity and the other is based on discontinuity. This is true also of space and time. Space in relation to time is

discontinuous; time in relation to space is continuous.

Human conception and perception are contingent. There is a contingency of space's potential characteristics in its field relation to time. No time no potential. That is the next thesis. We conceive an electric monopole. We perceive time is vectored.

O SON OF BOUNTY! Out of the wastes of nothingness, with the clay of My command I made thee to appear, and have ordained for thy training every atom in existence and the essence of all created things. ~Bahá'u'lláh

Things, particles, are vectored in relation to space. Space is vectored in its relation to time. Time is vectored in its relation to meaning. Meaning is vectored in its relation to purpose. Purpose is the vector that is manifest through its derivatives. Primal Will manifests its oneness as purpose. Baha'u'llah reveals, as the Primal Will, the purposeful relations stated above.

In philosophy and logic, contingency is the status of propositions are neither true under every possible valuation (i.e. tautologies) nor false under every possible valuation (i.e. contradictions). A contingent proposition is neither necessarily true nor necessarily false. -Wikipedia

¿Oh really?

The circle is contingent upon the One center and the radius, as relational, is eternally, continuously, intellectually, emotionally, socially, physically, spiritually *necessarily* true. There are absolute truths. Our understanding is relative, contingent; we choose our understanding. Re-cognize a meaning reflected in what we have accepted to be true, thereby this association allows us to accept that meaning as true. The truths we cognize are contingent on those we have cognized previously. This is the vectoring of conscious. We are being taught.

There are those who thought "squaring the circle", the image above, was about the relationship of surface area of each concept in relation to each other. That would be the contemplation without depth. Squaring the circle is the reality of perpetual continuity synthesizing discontinuity. That is the idealized relation of discontinuous synthesized as continuous related to true continuity. So in physics, if you take a quality, an attribute, such as velocity and it is squared it becomes a pivotal relationship because it is compared to itself. Intrinsic spin has two components, relational spin (Stern-Gerlach spin) and essential spin. Something squared is akin

to the essential spin, of the motion of a reality compared to itself. This is the deeper reality that all realities are unique, but when reality is compared to itself, then you have something to referenced to move from and this is where we get our capacity to do calculations computations as quantum. How the not One can reflect oneness? by repeated choice to understand oneness, then as reflection-it is what it is.

Every time a human being uses the word *cycle*, that is squaring the circle. This is because that there are no cycles. Every event is unique every day unique every person unique every return of the motor unique. But we do love squaring the circle. So the simplest and most beautiful quantum reality of squaring the circle is that use of the relationship of surface area as our prisoner reflected. The side of a square compounded (A^2) on itself creates an identity of reliable, as true, as right (angled) structure. We quantify the square. The mind just loves quantum questions. Squaring the circle we quantify the circle by the radius as the compounded reality as ipseity, Quantum Circle = πr^2

The law of squares other physicists have reflected and pondered and seen that this is pervasive throughout physics itself. This is not this students observation, but what was taught. The thesis **25) Compounded: The Structure of a Divine Symbol and Physics Equations** further explorers this and more powerful relational structures. Carlos Ravelli is correct. It, nature, is all relational.

The ancient Hindu, Buddhist, and indigenous traditions symbol as the holy swastika conveyed the compounded dual orthogonal as squaring the circle, Four Orthogonal Radii, the divine reflected in the physical. This relation further examined in the emission of light by electro-magnetic radiation in:
2) Truth $\Leftrightarrow$ Light $\Leftrightarrow$ Conscious; Parallels = Physics



Four sacred symbols in petroglyph from Tibet. The Crescent Moon, an ancient symbol, conveys *Time*. The Circled Cross with the intersecting diameters, an ancient symbol as well, conveys location in *Space*. The Hooked Cross, four orthogonal relations, conveys change, as *Meaning*. The three of these grouped together suggest that there is an intention, as the forth symbol. The *Purpose* to the cohesion of the message that was left as this petroglyph. These Arche-types echo through and from our ancestors to and in us.

The link between time and space is as mystical as the link between your soul and ego. Therefore, perhaps, you could...will...to understand this thesis. However, it is permitted, nay commanded, that we translate information from others to our frame of reference and in that context/contingency transmute it from information to knowledge.

Verification of understanding: Physical space contains and separates physical things and objects, e.g. planets, rocks, electron particles. Ideal space contains and separates ideas, ideals such as abstract points, geometry, physics analysis in abstract space. This thesis examines physical space and separates it from the ideal. The ideal space, conscious, is examined in:

2) Truth $\Leftrightarrow$ Light $\Leftrightarrow$ Conscious

Parallels = Physics. We, as students of physics, have confused the ideal and physical. Ideal space is continuous in relation to time, physical space is discontinuous in relation to time. This has led to misunderstandings. Aristotle did not perceive the relation and essential separation of ideal (universal) form to the particular (physical) form, the event from the physical object, what is symbolized by the symbol. This confusion limits our perception and understanding. Hermes clarifies where idols, symbols, get their power: from our association, and if not then, by our confusion. They never were what they represented, not in physics, not in religion. Even if they were mathematical symbols, like equals; even if they were symbolic of the Manifestation, the source of unity. Muhammad, respectfully, buried the statues of Jesus, Mary, and Joseph; he did not smash them like the other idol symbols. Robert Recorde specified the limitation of equals, the contingency of parallel lines.

Because we see parallels from the mathematics of physics to the predictions of real physical phenomenon, we do confuse ideal space with physical space; just as calculating the heat at the sun's surface and going to the sun and touching it is not the same.

Space in physic's calculations is a tenor as ideal, symbolic, continuous. Physical space is a vehicle as

existent, sensible, discontinuous. `Abdu'l-Bahá indicates the physical world is the shadow and the light of ideal-spiritual world is the source. We recognized by contrasting. The binary relationship of light and shadow. We confuse the two. Our bodies live in physical. `Abdu'l-Bahá emphasizes this world is a reflection of the spiritual world. Time not physical in relation to physical space. Physical space is physical in relation to time. Ideal space is not physical. Our use of the same word space for both is the source of confusion.

Free will manifests **permission**. The essence of free will is a veil. Behind that veil we are becoming, **destiny**. The veil is removed at the **decree**, now, it is. At the encounter with the Primal **Will**, becoming is transmuted to being, quantum collapse, possibility becomes physical.

O SON OF MY HANDMAID! Didst thou behold immortal sovereignty, thou wouldst strive to pass from this fleeting world. But to conceal the one from thee and to reveal the other is a mystery which none but the pure in heart can comprehend.~Bahá'u'lláh

Another manifestation of permission (possibility) comes as imagination, "What if?", which does not conform, is not binary. It is not physical reality. It is the nothingness from which all man (non-gendered featherless biped) made things come, in His image. It is a beloved question.

The previous paragraphs filtered out all readers who are not willing to open up their minds and think with endeavor and perceive physics as a vehicle for understanding the Creator...

Thesis abstract: the purpose of this paper is to examine the separation of time and space for purposes of quantum paradigm as opposed to Minkowski's and Lorenz's 4D space/time for quantum predictions.

Dr Paul Dirac proposed conscious comes from the overlap of past and future. The overlap of past/future creates, allows a capacity for will. Indeterminate state, eigenstate, possibility, represented by $\sqrt{1}$ for which there are undetermined solutions. Initial examination suggests two solutions -1 and 1 , $\{(-1)^2 = (1)^2 = 1\}$. All things come from the One.

The proof is that the One is Self-defined. That all created things in the world bears this mark to educate us as to know the One. There is one of everything; everything is unique. A mark of the One. Things are what they are. They were created by the One that is Self-defined. Our coming to be is

contingent on singularity. Like Big Bang? From One comes zero, binary. Cognition of the relation, fields, have multiple attributes. This is as old as the Dao (Tao). Creator creation. First Creation out of itself = Primal Will.

The Cause of God as the first and foremost meaning refers to the Manifestation, as the Manifestation is the cause of the revelation of divine truth, The Active Force, the Primal Will. The cause of God, the recipient, would be the first cause for which physics searches. Purpose reflecting Primal Will.

Primal Purpose, First Word, First Cause, Primal Capacity, Primal Point; purpose, (possible), meaning, time, space, particle. Mathematically, ontologically, logically, mentally, etymologically, spiritually derived, defined, differentiated, and manifested as and by the One Will as oneness.

The Knowledge of science investigation evolved as our reasoning of causality of nature evolved. The understanding of Truth in religion evolved as our spirit moved forward toward perfection of understanding, practice of divine will becoming the causality of our deeds.

"I was a Hidden Treasure and loved to be known. Therefore I created the creation that I might be known." ~ Muhammad⇒Alí, Islamic Hadith confirmed by Bahá'u'lláh and expounded by `Abdu'l-Bahá

The working of wonders is from one as all things came from one by the treatment of the one.
~Hermes

Moses asked, Who shall I say sent me? Tell them "I am that I am." sent you. As The One = I, I = am = 1, $I \cdot AM = 1^2$ ($I \text{ am}$) $^2 = [(1)^2]^2 = 1$, it is a mathematical statement. It is a philosophical statement. It is a religious statement. The origin, a self evident truth. It is a poetical statement. It is a beauty. Yes sir, Dr Paul Dirac, it is beautiful. Every time we examine this metaphor we translate it to an equivalent analogy, as equation. Logos creates questions and permission for answers.

When the Báb declared:

I am, I am, the promised One! I am the One whose name you have for a thousand years invoked, at whose mention you have risen, whose advent you have longed to witness, and the hour of whose Revelation you have prayed God to hasten.

He infused a new reality, a new dimension, into our souls and into creation, $(1^2)^2 = 1^4 =$
SPace•TimE•Meaning•Purpose=

4 Orthagonals intersect at a single point, single particular, The Primal Point the Báb. The ancient symbol of the perfect man in Hinduism, Buddhism, and indigenous traditions.



The German military movement in the 1940s knew this was a sacred symbol. They did not understand its meaning. The sketch of this prophetic petroglyphs conveys the confusion, the war, surrounding the ignorance of not knowing the meaning of four orthogonal's on a single point.

If there is only one of all things, then why are all of the electrons the same electron? Well, Dr John Archibald Wheeler, you have already answered this. Have they no imagination? They are permitted. That is addressed in papers 5) and 6).

QUANTUM EQUATION COLLAPSE

Time is not a physical characteristic. It is not a physical quantity. It is entirely an intellectual quality that we associate imaginary cycles to quantify it. But to understand time it is reasonable to examine it in the same way you would examine any thought, any ideal, to determine its reality. Time, eternity, has four human perceived aspects as a single reality. Time, which has a beginning and end, is this instant, now. Time that has no beginning but has an end is the past. And time which has a beginning but no end is the future. Time, which has no beginning and no end, is eternity. These qualifiable philosophical divisions are restated by Bahá'u'lláh. We take the past as now receding, the future as now becoming, and now transmutes all to what it is, the physical, the observable, measurable,

experienceable, collapse of quantum state, the boundry. Now, the determination, by the Primal Will.

$$\{(-1)^2 \text{ or } (1)^2\} \Rightarrow \{(-1)^2 \text{ is } (1)^2\} \Rightarrow 1$$

$$\text{Future} \Rightarrow \text{Now} \Rightarrow \text{Past}$$

The indeterminate state originating from two possible realities (be or not be), minus one or one, is transmuted, collapses, determined by the instant of now, the Primal Will, to become one. Primal Will is the observation, measurement, interaction of now. Now is the Divine declaration "It is what it is!"

Quantum mechanists have identified that the quantum set for information is 4π , 720 degrees?; for information to be determined, to be complete. That requires two full cycles. "It is." One cycle. "It is what it is." Two cycles. Physical existence in space is. Physical space in time, is what it is, now. One cycle in space one cycle in time. But there is another layer to this. Everything with meaning has layers. De profundus. The cycle in time also exists as becoming. Destiny. The cycle in space exists as being. Decree. Oddly there is an interlace, interaction, an inner weaving, in the process of becoming and being. This is further explored in the propulsion of the electromagnetic wave, 2) Light Truth and Conscious.

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W. Heisenberg,

unmöglichkeit, die an der Gleichung (1) entspricht, an schrittweise Quantenmechanik unmittelbar. Diese Unmöglichkeit, die durch Gleichung (1) festgelegt ist, macht also erst Raum für die Gültigkeit der Deutungen, die in der Quantenmechanik die Vertauschungsrelationen

$$pq - qp = \frac{h}{2\pi i}$$

in der folgenden Ausdrucksform, die zunächst diese Gleichung, aber das der physikalischen Sinn der Größen p und q zunächst werden realis

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

Uncertainty principle of Heisenberg,

Later corrected to reduced Planck's constant $\hbar = h/2$ allows for Schrödinger's equation.

Fore there the corrected Heisenberg uncertainty $pq \cdot qp = h/4\pi i$

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 the mass in time. Mass as a function of intrinsic spin =

relational spin compounded by essential spin factors.

Vahid Ranjbar, the Baha'i nuclear physicist, kindly pointed out, that from his perspective, the cause of inertia is a quantum interaction of the characteristic of mass with space. He is correct, but this needs further exploration. We must understand essential spin of the electron in high school terms.

There is an aspect of exploration of transmutation of time that does not follow the rules of logic in that the relationships are circumstantial, but it would still promote understanding in the same way that color, nonessential to our occidental minds, in artwork can increase the understanding and aid the translation of the artwork itself. (To our oriental minds color has deep meaning and significance. We share knowledge with ourselves.) So transmutation of time: Minus one in the above mathematical description can be associated with "not future", one can be associated with "future". In the same way that logically, linguistically, and mathematically a double negative transmutes a thing to its positive reality. The Primal Will transmutes "not future" by identifying it with itself into the "future" identified by itself. It is equivalent to the "future" identified by itself. All is defined by the One.

$$(-1)^2 = (1)^2 = 1$$

(not future)² is (future)² is determined, confirming the One is Almighty, Unrestrained and is the Source of all. "We will, all, verily, abide by the will of God." Time is the Will of God, First Cause. The perfect regularity of physical creation.

Fear God. Please God protect beyond the periphery, physis, on this thought tangent. This is repeated and examined at a deeper level "overlap of past/future creates, allows a indeterminate state, a capacity for will. Indeterminate state, eigenstate, possibility, represented by $\sqrt{1}$ for which there are "two? solutions -1 and 1, $\{(-1)^2 = (1)^2 = 1\}$. There are more solutions for $\sqrt{1}$. $\sqrt{-1} = i$, the mathematical imaginary delineator, logic, reason, reality, mathematics says the solution for $\sqrt{-1}$ does not exist, therefore it is imaginary. $\sqrt{-1} = i$, $\{[(i)^2]^2 = [(\sqrt{-1})^2]^2 = (-1)^2 = (1)^2 = 1\}$. So imaginary reality, the unreal identified as itself, itself squared, translates to negative (not) reality, which can be identified as itself, itself again squared, and become positive identified as itself. Dual Orthogonal defines Reflection referencing the reference to itself. Two Cycles as self referral. Squaring the circle was not just about surface area, the surface of discontinuous squared space interacting with the continuous circular surface of time as in Planck's constant. Is this the process by which quantum equations, integratable squares, are recognized as true? Is it the same process occurring when

imagination creates art and music? Or is this merely a description mathematical analogy of how what we imagine becomes reality for us? After reflection, it appears that this is the process that occurs when we are no longer in time. Outside of space and time, in the next life, our imagination is not constrained. So the powerful, awful, overwhelming majesty that is in the next life: we are left to our free will and our imagination, heaven is hell is heaven. If in this life, we do not learn restraint, then practice submission, and then transmute to grateful acceptance, radiant acquiescence, *rida*, to the Primal Will. That is, if we do not learn self control with joy, then this mathematics shows a process of how in the next life, we will be left our own imagination, to our own devices, designs, and technology, to our own desires. Permission granted. Free will: to be left to our will. You will live the existence you choose. The next life is eternity, no past, no future, no now, no collapse. This life was merely a practice run of whether you choose to live by your will, or the Primal Will. Poets have better conveyed the fear of death as unknown what conscious wills or will be when no longer associated with this world.

To die, to sleep;

To sleep: perchance to dream:

aye, there's the rub;

For in that sleep of death what dreams may come

When we have shuffled off this mortal coil,

Must give us pause.

~Hamlet

It is clear that the Primal Will and the Manifestations are beyond reach of or encompassment by reason. In one of Bahá'u'lláh's Writings, He asks forgiveness for imagining He understands one of the Names of God. Forgiveness was granted. Permission given to be a lover. Let us leave from beyond the periphery and return to the village, nomos.

Death is best perceived though the eyes of the Manifestations of this age.

"O SON OF THE SUPREME! I have made death a messenger of joy to thee. Wherefore dost thou "grieve? I made the light to shed on thee its splendor. Why dost thou veil thyself therefrom? ~ Bahá'u'lláh

Time is not physical and does not exist in the universe. The universe exists in time. This allows us to project that space is contained in time. And space in time is contained in meaning. And that space in time, in meaning is contained in purpose. That space in time in meaning in purpose is the structure of reality. The four concentric spheres,

four related sides, a non-Euclidean tetrahedron. The center, The Primal Point is the first sphere, analogous to the Arche Electron.



Time is a veil. The future is veiled. The past is under a lesser veil. We think we saw and remember the past. As time passes, we acquire honesty and humility, we re-cognize, "That is not how I remember that event." We sort and store information contingent on our knowledge, emotions, desires, skills of reason at the time. We put our own veils on our past. The veil over the future is the greatest grace.

"In the sight of God the past, the present and the future are all one and the same," 'Abdu'l-Bahá explains, "whereas, relative to man, the past is gone and forgotten, the present is fleeting, and the future is within the realm of hope."

This is not circular logic. The future is indeterminant for our physical existance. First Cause is the cause. Because time is continuous the event does not reoccur. Time segments are imaginal and rational, not illusional or delusional. Cycles are a imaginal perception. No day is the same day. No turn of a motor is the same turn. Circles exist. One turn, Universe. So we construct a comfortable view of our science that prevents us from understanding what nature is telling us. Apollo's chariot is no more real than than the perceived cycles. We love the familiarity of cycles. Time is not circular or vectored in relation to space. Space is related to time, by One, $1 = 2\pi$ spacial $\cdot 2\pi$ temporal one fold as uni-verse by one turn in time.

So superposition of time on our awareness is thought provoking. Is this the source of thoughts?

Cognition, conscious, likes to perceive. To define itself, it examines its relation to space. Here? To define itself, it examines its relation to time. Now? The veils over its range of sensory perception provide its reference. Time has a limited and limiting relation to space. This is a perspective of what Max Planck measured. Time "cuts" space to discontinuous segments, because space is a derivative of time. This is explored in **12) A Coin for Your Thoughts** and further explored in **2) Truth $\Leftrightarrow$ Light $\Leftrightarrow$ Conscious.**

Image A

The Sun of Truth and its Halo =



Primal Point $\cdot$ Circle of Unity =
The Báb $\cdot$ Bahá'u'lláh

The essence of a mathematical equation is the equal sign. It's very important to understand that an equal sign does not mean that the two realities on each side of the = are the same. And yet, they are. Only when given the contingency of the relation. They are no more or less the same than any two parallel lines are the same. They are not the same line. The space between is the contingency. All electrons at all time at every place are the same electron given the contingency: They are the Arche Electron. That is another paper.

"The whole visible world is only an imperceptible atom in the ample bosom of nature. No idea approaches it. We may enlarge our conceptions beyond all imaginable space; we only produce atoms in comparison with the reality of things. It is an infinite sphere, the center of which is everywhere, the circumference nowhere. In short, it is the

greatest sensible mark of the almighty power of God that imagination loses itself in that thought." Blaise Pascal

Since the above squared mathematical analogy of One is valid in that it is relevant and the mapping of tenor to vehicle is consistent, faithful with relations, then consider the possibility that this analogy could reflect an understanding of how divine revelation can take the limited understand of men and the traditions born of imagination and transmute our factitious stories to true knowledge. Yes, placing those stories in context of the Revelation for this day, this time, infuses new meaning; this is a real simple explanation. However, the gem of divine Revelation does have other facets that enhance its beauty. Please consider the Primal Will, as the Manifestation $\Leftrightarrow$ Manifestation as Primal Will, who

creates reality from stories as above. Stories "not true" as -1 are identified as identified (squared) by the Manifestation as a vehicle for "true", as 1 . (Not true) $^2 = (\text{true})^2$. Stories are transmuted to Revelation, full of meaning and relevance, thereby, become knowledge. It is OK, permission given, to apply reason to divine teachings, to find greater depth, contingent on reverence, recognition, and reflection.

The determining factor of the universe transitioning from becoming, **Destiny**, to being, **Decree**, is the Primal **Will** as a cause of creation, as a cause of **Determination**. This is the reality of what causes the collapse of the quantum state. Divine Will is anterior to determination and is anterior to both destiny and decree. All the same, we can understand this by knowing who we are. Because we are veiled from the future we can understand the exoteric process esoterically by analogy. That is, we can see how our will determines our action; that causes an indeterminate state to become determined. So by knowing our rational soul, our mind, our will, we can know how the process of creation occurs. It is a reflection, an image, in His Image. The purpose of physics: to know nature as the Primal Will, First Cause, that we might know ourselves, thereby know our Creator. Physics examines the tri-ratio, pure reason. $A=B$, $B=C$, $A=C$. "He that hath known Himself hath known God." To know B? The Manifestation who originally conveyed this relation in Writings and in Person as a trial of words and deeds. Aristotle reflected on and noted the mathematical expression of the relation. The same Manifestation conveyed the One, a concept which Aristotle struggled with. Aristotle now recognizes that A and C are one by B. B is the intermediary. B is B, it is what it is, B^2 , by words and deeds.



This symbol conveys the essence of correspondence, relational, and meaning. It is only a symbol. Love of a symbol should not keep us from loving what the symbol represents. May we not be confused.

https://bahai-library.com/faizi_symbol_greatest_name

Time is not vectored; our conscious sensible observation is vectored and veiled. The Eternal Observer perceives the explosion $\Leftrightarrow$ implosion and vice versa. We do not. We are veiled by grace. Our conscious is not contained by our body, but associated with it, just as this student's love of physics is not contained by these words, but is associated with them. These words are vectored by non-physical purpose as well. We cannot put conscious in a box or a skull. We cannot put meaning in symbols, we can associate the two. When our conscious is no longer associated with our body, we shall perceive, eyeless, earless, our imagined existence even as we do now so choose.

"O SON OF THE THRONE! Thy hearing is My hearing, hear thou therewith. Thy sight is My sight, do thou see therewith, that in thine inmost soul thou mayest testify unto My exalted sanctity, and I within Myself may bear witness unto an exalted station for thee."

~The Hidden Words, Bahá'u'lláh

In the examination of the quantum mechanics dual-slit lamp experiment and the mathematics of the Schrödinger equation, we have projected onto it a egocentric perspective that we are the ones who caused experimental shift particle $\Leftrightarrow$ wave behavior and the collapse of the equation. We have confused the vehicle with the tenor. We have confused the symbol, our will and our observation, with the reality of the Primal Will and its observation.

It is reasonable to acknowledge that the "observer effect" is the cause of the collapse to determined status.

The Von Neumann–Wigner conclusion, specified as "consciousness causes collapse", is a meaning of

quantum mechanics in which conscious or observation is proposed to be essential for the determination of the superposition.

However, the Observer is not us. By Albert Einstein, we admit we cannot observe the entire universe simultaneously. By Werner Karl Heisenberg, we cannot observe, even with ideal eyes of mathematics, simultaneously in time and space, two particular exact values thereof. We can choose to perceive that which observes the entire universe and its particulars is the Primal Will, as the One's agent. That "all is observed" is a universal understanding from present and ancient times. Common knowledge as common sense, common sense as common faculty gave us this original meaning.



The overlap of past and future does allow the indeterminate state. The **Term**, the duration of the overlap is a difficult question to examine, because that its essential nature excludes the duration from being temporal as perceived by our purpose vectored conscious.

Dr Paul Dirac suggested that the overlap of past and future was the cause of conscious. An indeterminate state creates possibility, creates a non-physical space/capacity for human will to be. Human will cannot exist if everything is determined. Given that Purpose itself is a non-physical characteristic containing all contingent things. Purpose is an essential characteristic, not accidental. Human will cannot exist without Purpose. Human will would have no Purpose if there was no human conscious associated with it. Therefore, human conscious is an essential characteristic associated with human will. They may be the same reality in the same way that mind, heart, spirit, and soul are all aspects of the same reality. It is a consideration that will $\Leftrightarrow$ spirit refer to the same reality, as mind $\Leftrightarrow$ conscious refer to the same reality. So our conscious will's, our rational soul's, existence occurs because of the overlap of

past and future. So what is the measure, the duration, the term, the expanse, that establishes the quantity of this quality overlap?

The desire that human will be unbounded is an interesting dilemma. It appears on one hand, that human will is unlimited. But on the other hand, if we use the human will against its own Purpose, we find ourselves confounded. Purpose is not a physical characteristic of a thing, but it is a activating and constraining aspect of all contingent things. Parallel to this, time appears as a limit to all physical things, yet it is not physical, and yet it is unlimited and continuous. Our experience of it is limited,

Duration. Our time is limited. That we see a limited field of vision for a limited time with our physical eyes does not mean that field is the limit or that time is limited. All realities have Purpose; are contained by Purpose. All physical things are contained in and affected by the passage of time. May Sinclair, in *The New Idealism*, was correct; time is the Will of God. Divine Purpose is an aspect of the Primal Will, Time is an aspect of the Primal Will, the Manifestation is an aspect of the Primal Will. No-thing-ness, physical space, containing all things, is an aspect of the Primal Will. The Primal Will has characteristics of both a tetrahedron and four concentric spherical sets. From our traditional perspective, space, nothingness, contains limited particular physical things. Time contains events and space and things. The Manifestation, Logos, contains time, as They are pre-existent and contain, create, and express meaning, ethics, and values . They reveal these to our conscious, the unfolding of our deeper reality. Meaning contains time, space, and things. Divine Purpose, un-differentiated, contains the Manifestation, as meaning. This describes four relational aspects of the Primal Will.

May Sinclair wrote pair of philosophical books, describing the New Idealism, and *In Defense of the New Idealism*, 1922. In her philosophy, she proposes a differentiation between primary conscious and secondary consciousness. This is actually remarkably brilliant. Recognition is overdue. Male cognition has been crippled because it has been unwilling to recognize the powerful contributions from the receptive minds of women. This is an aspect of why the progress of physics has been slower than it can be. Just look at the advancement of the other sciences that women have equally participated in. Half of the potential physics contributions that are now needed are not available to us, because that the dominance of male personalities with limited receptivity. These personalities prevent us from moving forward. Max Planck thought that physics advances by one funeral at a time. However, things are changing. Women are, through incredible, work, perseverance,

and determination, bringing their capacities to physics.

May Sinclair explains that Primary Consciousness is the conscious that allows for sensible cognition, recognition of sensory input and responding to the sensory input. This, she explains, is what animals possess. Secondary Conscious, however, she indicates is being conscious of being conscious, (conscious²) which humanity has, self-conscious. So `Abdu'l-Bahá indicates in a very lucid statement that humanity is not contained by the reality of nature, because humanity possesses self-awareness. And He points out that nature does not possess self-awareness. Therefore, the reality of humanity contains the reality of nature, but the reality of nature does not contain the reality of humanity. To further explore this, Bahá'u'lláh indicates that nature is the Will of God. In this paper, there's an alignment of the Primal Will having four aspects. Space contains all the particulars, contained by time, contained by the Manifestation, the source of meaning, and all of this is contained by the Primal Will, undifferentiated as Divine Purpose.

So it is proposed as a modification of May Sinclair's observation. The primary conscious is actually the basic conscious that can respond to stimuli. Not necessarily sensory stimuli. Abacus beads have this conscious; they move when pushed, like particles. An example of primary conscious is the interaction of time with space; space responds. The Primal Will as time and as space interacts with itself. On this level physics is primary conscious; on this level is a rock's conscious. If a rock is struck with a hammer and fractures there a stimulus and response. The rock knows its own composition and its limits. The hammer knows its own composition and its limits.

Secondary conscious is an entirely more complicated response to an entirely more complicated stimulus. Calculators have this conscious; stimulus input is calculator buttons. A plant grows in response to sunlight; a plant grows in response to nutrients in the ground; a plant grows in response to water. This is the Primary Will as secondary conscious. The conscious possessed by plants would be secondary conscious .

Tertiary conscious would respond to sensory stimulus as opposed to environmental stimulus. Animals have this conscious. Computer AI has this conscious. You are holding in your hand interaction, interface with tertiary conscious, like an animal, like a pet, "My precious."

Forth degree conscious would be response to conscious itself. Self-awareness. We will not be able re-cognize synthesize of this until we have known

ourselves, until we know where self-awareness comes from. This realm of forth degree conscious penetrates the realm of meaning; it has the faculty of imagination, a power of the soul; it can reason to perceive the realm of the ideals. It has the facility of reason, deduction and induction, and interlaces them weaving past future reasoning with limitations and contingencies. It can laugh at itself, just for fun. It has the capacity to re-cognize the relationship and difference between purpose and function. It has a free will. It can choose to see value in another's thoughts or not.

There is a manifestation of Primal Will that which has a conscious above human. A Conscious that can participate by Revelation.

And if there is that which has quanta, then there is that which does not? Quantum physics summons this question. A binary question. Quantum of one, Qualitum of one?

The proposal that man is a rational animal is interesting. Yesterday, this student was told man is a rational animal; Aristotle reverberation. Man does have reason, imagination, mathematical & abstract thinking, perception of things not physical, and self awareness. Your dog has eyes, ears, and can walk about. That does not mean that your dog is a plant that has eyes, ears, and can walk about. There is a different degree of conscious. `Abdu'l-Bahá describes the separation of these kingdoms, degrees, repeatedly and repeatedly and very clearly.

There is a level of conscious above self-awareness, The Quintessence of Conscious; It is the Conscious of the Manifestation as Primal Will as the Manifestation, dual orthogonal reflection of the divine. This transcends self awareness, reason, imagination, and free will. It has the capacity for Divine Revelation. And Revelation, Logos, the Word, itself creates, defines, all of the other levels of conscious. Divine Revelation, transcends time, reason, imagination, and self-awareness; it is Truth.

There is a Conscious above the Manifestation. Bahá'u'lláh makes it clear that words, attributes, Primal Will do not contain it. The **One**.

Remember Flatland and Sphere World? Our interaction with each other also creates mind expansion. It increases the degree of perception, if we are open, that movement, interaction at the boundary between two conscious ⇒ creates understanding of our own thoughts. It is actually modeled, or reflected as the interaction between Creator and creation, between Manifestation and believer, student and teacher, between the ideal and the form, question and knowledge, effect and

cause, hypothesis and experiment, and as time and space. Movement at the barrier/boundary, the slide rule, belongs in another paper.

The container of space and the container of time are the converse, the inverse, of the mathematical Gabriel's Horn, having infinite surface with finite volume, the containers of space and time have infinite volume with finite containment surface. Pascal gave us clues. Juan Maldacena's search and work for a "boundary and bulk" model is a powerful perception, but it is much more simple when imagined. That is another paper.

One of the important things is to understand the meaning of words. This is how we identify things to ourselves and communicate them to others. What is physical is defined as that which is contained in the physical universe. If it is not contained in the physical universe it is not physical. The popular accepted definition of what is physical currently is - those realities which can be measured by physical means. In that case, we can consider charity is a physical property. The person's total assets can be measured; the percentage of his assets that person gives can be measured; it can be agreed upon that specific percentage of total assets given represents a specific quanta of charity. However, this does not make charity a physical property/reality. This analogy is to help us understand time. Although we agree we measure it with imagined associations, it is not a physical reality. Einstein, in his discussion of relativity, presented that the position of the second hand of his clock is time. And everybody stands under that. That's not actually time. That is an association of time with a symbol. We have been confused about the symbol of time taken to be time itself. The clock is in the physical world but what it represents, time, is not. We associate movement with time but it is not time. Fall leaves falling is annually cyclic and can be associated with time. However, the location of a specific falling leaf in its journey to earth is not time. The wrinkle on our forehead is change, but is not time.

The laws of relativity apply to motion in space. Einstein recognized this later and acknowledged that a clock actually measures motion. It does not measure time. The Primal Will exists "outside" time, space, meaning as divine purpose.

A physical thing is a thing which is contained in the physical universe, which it or a portion of it can be contained by smaller physical containers, such as a bottle. Specifically, exactly, physical things can be localized in space, discontinuous space. If you cannot put it or a portion of it into a bottle of appropriate size, it is not physical. Time is not physical. Understanding is not physical. Understanding and meaning contain the reality of

physics, the subject that physicists contemplate. Time is not physical. It contains events and space. Space is physical. Space contains physical things. Things like vacutainers contain space. We can remove the molecules and gases from a bottle. We can bottle space. We can move it to another location where there is no empty space. We can put sand with mass, charge, and energy in a bottle; as sand with mass, as sand with a static charge, and energy as hot sand in a bottle and move them to another location. We can put physical things in a spatial location, a bottle. Mass, charge, energy and space are physical quantities. We cannot put time or a portion of time in a bottle. There is no location in space that is now; there is no location in space that is past; there is no location in space that is future; there is no location in space that is eternity. No quantity or portion of time is located in space. The universe does not contain time. Understanding of sets and set theory is an essential aspect of mathematics and of physics. There are four things in the basket of the universe: mass, energy, charge, and space. The fifth thing, time is not. This is pure math.

Space, nothingness, no-thing-ness, is physical and discontinuous. By definition it is the separation. By definition it is the substrate for quanta. By definition it is the container and discontinuity of things. There could be no true quanta without discontinuity. There cannot be continuity between a discontinuous thing and a continuous thing. (Things as in physical objects. Mathematical discontinuities as entities are analogies, symbols, not the thing they represent. Math is not physical.) there can be association between continuous and discontinuous things. If one of the two is discontinuous there can be no continuity. For dimensional space and time is a intellectual construct for computation. It does not reflect a physical reality. There is no space-time continuum in space or in time or between. Space is discontinuous in relation to time. True time, eternity, is continuous. They are as distinct as 0 and 1. The events associated with sensory input are contingent but not continuous. Sensation of an event is not the event. It is sensory input that created our idea of time. Consider if we developed on a planet that did not spin on its axis, had no tilt, no solar orbit, and no moon. There would be no days, therefore no hours, and no seasons. Time is an ideal, abstract, intellectual construct, not a physical thing. It is not an illusion, but it is not physical. One is not an illusion, but it is not physical. Illusion has the connotation of non-existence. One exists, but is not physical, as time exists, as conscious exists.

The big bang was an event; it was contained in time. It was not the origin of time. Consider it as origin of space, the spatial separation of the singularity. Stating that it was the origin of time is

like stating when the origin of "one" occurred. When time started? is a circular question, indefensible. The alchemical ouroboros does not occur on our watch nor on our watch. We are vectored. We intellectualized that time was cyclic as we imagined Apollo and his chariot. We interpreted time as vectored. Psychiatric transference, we have attributed vectoring to time, we are vectored. Time is not vectored. Time is not cyclic. We are cyclic, we will face the same difficulties until we perceive, practice, demonstrate, acquire the virtues our soul longs for. We will re-cognize as many rounds as is required. We will not be reincarnated because we have never been incarnated. You can't put a mind or a soul in a box and you cannot put a mind or soul in a skull with or without a brain.

And this is the heart of the separation of time and space. The essence of separation of physical things and events. It is the heart of Zeno's paradox. The moving arrow is always moving. It doesn't matter what the segment of time is. If it is defined as a moving-arrow, it is moving. Time is continuous in relation to space; space is discontinuous in relation to time. The arrow as an object is not moving. The moving-arrow is an event. When Zeno uses the logic: as the time segment got shorter and shorter the arrow was no longer moving, he was redefining the moving-arrow, which was the inconsistency in his logic. He made the moving arrow not moving. He made the event an object. His logic was inconsistent. Parmenides is correct. Physical things do not change. Events change. Heraclitus is correct that river as an event ceaselessly changes as do we as an event. The river as an object never changed. Conscious is not an object nor event: no location in space no location in time. It is not eyes, ears, or sparks in the brain. At the time of your death and the time of your life, please continue to perceive yourself as conscious, a verb, in the realm of meaning in purpose, not as an event of time in space.

They told us a lie when they said that we see with, and not through the eye, which is born in the night which shall perish in the night, while the soul is bathed in beams of light. ~William Blake

Quantum is based on imaginary relations. As a non-tangential and significantly relevant examination, quantum mechanics is the application of the imaginary delineator (i), introduced previously. This delineator locates a quantum wave in a complex field of physical space and imaginary time. That is, in a complex system, both real and imaginary numbers are applied to what is measured. That makes these analogies relevant and faithful.

$$i\hbar \frac{\partial}{\partial t} \Psi = \hat{H} \Psi$$

Schrödinger's Wave Equation

Here, Ψ is a wave function that assigns a complex number to each point in space x,y,z at each time, t . So in quantum physics, time is already treated as a mathematical imaginary factor of necessity. If we allow time, a purely mental non-physical construct, consideration in physics, then we must allow other non-physical essential aspects such as meaning and purpose in our system of understanding. Reality and truth are absolute. Our understanding is relative. Religion and science both are sources of true knowledge. Revelations and science progress as their audience's ability to reason and understand progresses. They both enable us to know ourselves, know the world (nature), and thereby, know the First Cause of our Creator.

Physicists are philosophers, who desire to be something more.

Newton and Leibowitz' calculus computations work because space has quanta; it is discontinuous related to time. Time is infinitely continuous and sub-dividable in relation to space because it is not physical. The magic is still in calculus derivatives, because we factor out the Δt before, anterior mathematically, before it is zero. We factor Δ time out as a indeterminate undefinable variable prior to the explosion, to the big bang, to infinity, division by zero. Transcendental of time, we see the instant. Aye tis' awe!

So the terminology of quantum physics says that "vacuum" contains all of this activity, as a product of the uncertainty principle, that things can randomly pop in and out of existence by possible/probability calculations. This statement represents some confusion. Space, no-thing-ness, doesn't contain any possibilities or any probabilities. Again they are associating time with space. Nothing can happen unless you place space into time as a container. The possibilities and probabilities exist in time, exist in what could be, not what is. Space is a thing, a nothing, an object. If vacuum is defined as space in time, then the quantum bubbling in a vacuum is certainly rational. The possibilities and probabilities do not exist in space. It is once again a Xeno paradox of defining a thing, "no thing", space as an event of temporal duration.

Zero point energy is the slide rule between discontinuous and continuous, between space and

time, between physical and not, between boundaries. Slide rule aka there be a portal, a gate. The Primal Point. To be considered.

Why is it so important to separate space and time? Is important to understand who we are. To understand nature telling us who we are. Our understanding, our conscious, is an not an event. It is not contained by time. In that it is non-temporal, not an event, we can then see from the scientific, rational, structure of reality that conscious existence continues after the decomposition of the brain and body, an event that does not define us. Plotinus was correct.

Conscious is the overlap of past and future. Dr Paul Dirac presented this ideal from his jen, genii, genius, intellect, nous, soul, daimon, spirit, angel, virtue, higher emotion, purpose. He is correct. Does testimony, ethos, still constitute proof? If the one giving testimony is known as truthful and pure, then his word has weight as a proof. Niels Bohr was correct, Dr Paul Dirac is the purest soul in physics. If testimony is no longer proof, then what is the mathematical probability that he loved the truth he spoke of in physics? Weigh his words to deeds sensitively, precisely, specifically. He is a lover.

The limit of human will? The limit of human conscious? The purpose of human conscious? Stephen Hawkins asked the question "Why can't we remember the future?" If we remembered the future, we would know what we were going to do, therefore, we could not have human will to determine what we're going to do. Having the knowledge of what we're going to do would remove that possibility, for that is the "ideal space", capacity, potential, allowing human will to exist. If the future is determined, we cannot determine it. Since will, as spirit, and conscious, as mind, are two aspects, two sides of the same tetrahedron, knowing the future would end human will, would remove human conscious. Therefore, we cannot be conscious of or remember the future.

So Einstein gave preferential testimony that the moon is there even if we don't determine it, by seeing it is there. What does our free will determine? What are the limits of free will? We cannot determine if we are born tall, blonde, or black. As a child, this student heard "black is beautiful". Immediately wanted to be black; not black yet. Choices are limited by the world, by circumstances, by the Primal Will. On the other hand, we have a free will in these areas.

1. We can choose what we recognize, believe, accept as the truth, as the meaning of events in life. We choose our physics.
2. We can choose what we want or desire.

3. We can choose how long and hard our effort, our directed focus, emotional-spiritual response shall be.
4. We can choose to be detached from or release those things and desires we decide we should not want. Instead, we focus on what we choose to obey.

These capacities are as a woven fabric related to each other.

So what is the duration, the expanse, that establishes the quantity of this overlap of past and future? It is not a temporal quality. Is it possible to increase human conscious? **Conscious as light, illuminati, bodhi is a universal.** Is it possible to increase human will?

The overlap of past and future is found in meaning. Meaning contains time. The overlap of two opposing inconsistent meanings is found in purpose. What is the intention of this paper? That this student understands the purpose of what was instructed. This being done would validate sharing that understanding.

This has been examined and explored, and known for thousands of years. We just weren't listening because it requires us to do what we may not want to.

"Though this Word is true evermore. Yet men are as unable to understand it when they hear it for the first time as before they have heard it at all. For though all things come to pass in accordance with this Word. Men seem as if they had no experience of them. When they make trial of words and deeds such as I set forth dividing each thing according to its kind and showing how it is what it is. But other men know not what they are doing when awake even as they forget what they do in sleep." ~Heraclitus circa. 550 BCE

This logos is ancient but it contains a remarkable level of deeper meaning in many ways and on many subjects.

- "when they make trial of words and deeds such as I set forth".
- "To thine own self be true."
- Sigmund Freud defined mental illness as an inconsistency between one's beliefs and one's actions.

Bahá'u'lláh's directs to conscious:

O Son of Man! Many a day hath passed over thee whilst thou hast busied thyself with thy

fancies and idle imaginings. How long art thou to slumber on thy bed? Lift up thy head from slumber, for the Sun hath risen to the zenith, haply it may shine upon thee with the light of beauty.

O SON OF MAN! Magnify My cause that I may reveal unto thee the mysteries of My greatness and shine upon thee with the light of eternity.

O Son of Man! Humble thyself before Me, that I may graciously visit thee. Arise for the triumph of My cause, that while yet on earth thou mayest obtain the victory.

O Son of Being! Make mention of Me on My earth, that in My heaven I may remember thee, thus shall Mine and thine be eyes solaced.

O Son of Dust! All that is in heaven and earth I have ordained for thee, except the human heart, which I have made the habitation of My beauty and glory; yet thou didst give My home and dwelling to another than Me; and whenever the manifestation of My holiness sought His own abode, a stranger found He there, and, homeless, hastened unto the sanctuary of the Beloved. Notwithstanding, I have concealed thy secret and desired not thy shame.

O Essence of Desire! At many a dawn have I turned from the realms of the Placeless unto thine abode, and found thee on the bed of ease busied with others than Myself. Thereupon, even as the flash of the spirit, I returned to the realms of celestial glory and breathed it not in My retreats above unto the hosts of holiness. ~ Bahá'u'lláh

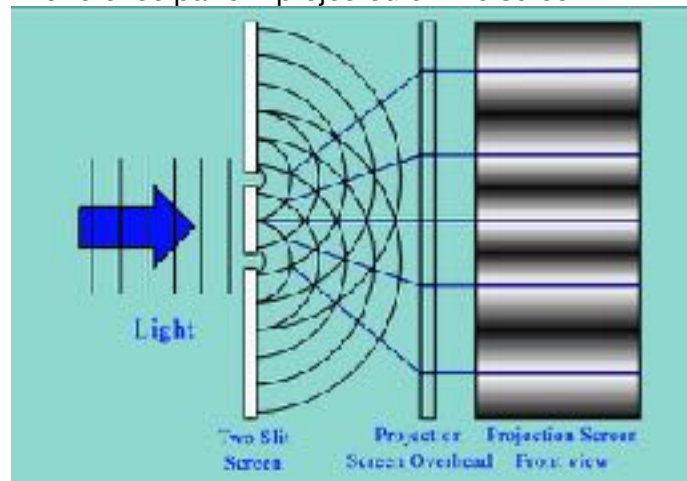
If our Spirit, our Soul, our Mind, our Heart visits and finds us occupied with vain and empty pursuits, then It, the Holy Spirit, Primal Will, Time contained in Meaning in Purpose does not linger. The overlap is diminished. Scriptures as poetry become meaningful if we inscribe them into our relations.

Extension of conscious, enlightenment, and its balance of will requires a consistency between your words and your deeds, your faith and your acts. If you do the next right thing. If you live by the standards you accept to be true, it creates integrity of your structure. If you're truthful, it increases your intelligence. If you practice humility, you are more capable of reflecting on how things really are and meaning others convey. Practice awe at physics, at nature and your heart will teach you. Ask to know, you will be amazed. To be known is the collateral

maze. What other quanta do you wish to alter in the universe? The quanta of your mind, heart, spirit, and soul or some other thing?

TWO-SLIT LAMP EXPERIMENT

When we pass the light through two slits, this creates the constructive/destructive wave interference pattern projected on the screen.



Then we are measuring an event in time; we are using the event of one light beam to measure the event of another light beam, both light beams are actually processes; they are not objects. Events are located in space in time, they are not just located in space. The measurement result is of an event, which is a wave.

When we measure the light with a photometer, we are measuring a location in space. A photometer is not an event; it is an object in space. We are measuring a particle, an object in space with an object in space, not an event in time. When we cover one slit, the measurement changes from the interaction of two events to the impact of the particles of light on the screen. The temporal interference, the temporal measurement, is gone. Instead, the screen is measuring the spacial location of the photon impact. Then, the measurement is of a photon, a particle in space, not an event in time. The expression of a wave is gone. Measure with yards you get yards, measure with particle you get particle, measure with wave you get wave, "dividing each thing according to its kind and showing how **it is what it is.**"

Einstein confirms light photons occur at emission and absorption, a location in space. Therefore, light waves, events, occur when traveling. So there is a problem of consistency of reason where light phases into discontinuous space, then it is a particle? Then when it phases out into time it's an event? This will need to be addressed in the discussion of the Cause of Propulsion of the

Electromagnetic Wave in 2) Truth ⇔ Light ⇔

Conscious

Parallels = Physics , another nearly complete thesis.

An electromagnetic wave is an event not a object. So in our confusion we were converting an event, a wave, into a particle by not recognizing what we were measuring, an object vs an event, and in what context we were measuring. Particles are located in space. Events are located in time. And this is the very essence of the quandary of the Heisenberg uncertainty principle. Since Galileo's ratio of velocity, we are living with our cultural difficulty to separate these two measuring frames. However, space is not time and time is not space and there's no continuum. There is a boundary (Alif) that associates the two. Time is not physical; space is physical. There is no space-time continuum. There is a genii relationship. Newton hid and exposed it.

"At the time of the victory every man will profess himself as a believer." Baha'i and Islamic Scripture. The victory? Be it over our own selves or some other entity? In secret as you achieve the victory, all of creation will sing hymns of joy and dance the cosmic dance. Desire to control gravity or your uncontrolled attractions?

The alignment of zero in space with zero in time as in the Minkowski/Lorentz transforms, are used in the proof of Relativity Transforms, is a useful mathematical operation and analogy. However, there is no true location in space that is now. There is a true point in time that is here, if the truth be known by you here and now. This is certain. So Lorentz's alignment of now and here is ideal, not physical. The location of Einstein's second hand of his watch was associated with time. It was not, as he declared, time itself. A symbol is not what it represents. Mathematical equations are analogies. There are limitations on the answers they can yield. These limitations pertain to their relevance and fidelity as analogies.

The significance of the ancients relating dry and moist, cold and hot, was conveyed in Apologia when corrupt and clear was also stated. The scale of space and the measure of time are two different realities as are these three measurements that are dimensions of degree of quantity: moisture, heat, singularity. There is no size-color continuum. Wavelength is not color, but they are associated. There is no space-time continuum.

The overlap of past and future is contained by the sphere of meaning. It is the realm of Socratic forms that Plato attempted to convey. It is the domain of Divine Revelation, the source of reason, the object of knowledge, as Logos it is the source of

knowledge. It contains the mathematical verities. Logos as meaning contains time, by a separate boundary. Purpose contains meaning. Proof? Intention is the expressed permission for humanity to, in His image, contain meaning with purpose. Tell a joke because you love people and laughing makes them happy. Tell a joke to degrade and humiliate a people because you have desire to hurt them. Purpose, intention, contains meaning. Meaning is not binary it is, however, contingent.

Your experience of your conscious is real. It is not physical. But like mathematics it can, by association, model and expose relationships. But as previously discussed, our conscious reason is limited. This last question is: Have you found a connection to the source of your conscious?

O SON OF BOUNTY! Out of the wastes of nothingness, with the clay of My command I made thee to appear, and have ordained for thy training every atom in existence and the essence of all created things. ~Bahá'u'lláh

Wastes of nothingness, space manifests the order/organization, limits, bounding constants, C , G , h , k , permittivity of space. Time, *the clay of My Command*, Primal Will, First Cause, time. The zero point energy, wastes of what could be, permittivity of space and permeability of time. Time and space interact as active force and recipient producing the wave or particle each according to natural law, destiny or decree.

Permeability of time is the essence of quantum tunneling, the essence of electro⇒magnetic wave propulsion. Permeability and permittivity are orthogonal by the travel vector not only the spacial vectors. Ninety degrees by time not merely ninety degrees in space. That is another paper.

The density of the veil is proportional to the grace, kindness, and permission. It is also proportional to acquired knowledge. Given the mass of knowledge collected by humanity, relatively, we, as individuals, know much less than Socrates. Pascal: "Man is equally incapable of seeing the nothingness from which he emerges and the infinity in which he is engulfed." (or the eternity to which he journeys).

Space-time continuum was a nice comfortable idea as was Apollo's chariot. We can observe relationships as moist becomes dry related as cold becomes hot. There's a relationship; but there is not a continuum of moisture and heat. Einstein's constant and Planck's constant both identify that the relationship of space and time has a limit, a boundary.

Δp change position ⇒ exact

Δq change momentum $\Rightarrow$ exact

- M = mass - known;
- x = distance - known

Δt duration time $\Rightarrow$ exact? Measure by motion, a

symbol, a clock. Measure by change, a symbol, an atomic clock.

- h = Planck's Constant

$$\Delta p \cdot \Delta q = h$$

$$\Delta p \cdot M \Delta v =$$

$$\Delta p \cdot M \cdot x / \Delta t = h$$

The more precisely we locate an object in space, the less precisely we can identify its quantity (momentum or energy) as this quantity is an event in time and *vice versa*. An essential understanding that space is discontinuous in relation to time and time is continuous in relation to space, makes the separation clear.

Quantum mechanics, at its very core is based on the idea that charge, energy and mass, matter, all come in quanta, separate distinct units. This thesis of the separation of space and time is very similar to the basis of quantum mechanics; it also is based on separation. However, it is proven by concepts of oneness, 1, and concepts of unity of the Primal Will. To understand the unity of things first you must understand the things as parts, as separate, and then see the relations of those things to allow you to see the unity. Motion, change, is the relation of space and time, and as May Sinclair suggests, human conscious is the field in which they are unified. Motion is the essential simplest relational as Carlo Rovelli, Galileo, and Heraclitus indicated. To see that time and space are two aspects of the Primal Will interacting is a mountain view perspective. A strange thing happens to those who spend time on a mountain. They see the world and their lives in another way. Intrinsic spin composed by relational spin essential spin, that is another paper.

**O Son of Man! Wert thou to speed through the immensity of space
and traverse the expanse of heaven, yet thou
wouldst find no rest save in submission to Our
command and humbleness before Our Face.
~Bahá'u'lláh**

The space? The vast nothingness of all that is. Heaven? Before, as in ancient days, heaven was an expression of all time, all that can be. The sun's passing conveyed time. The moon's phasing conveyed time. The shift in the stars associated with seasons conveyed time. The stories of our ancestors we saw embedded in the star's relations as constellations conveyed time. Today, the heavens are associated with time in that when we looked through a telescope, we see what is going

on with the cosmos, galaxies, suns/stars, the planets, the nebulas, the quasars, the white dwarfs, black holes, red giants, and super novae. All this light takes years and years and years to reach us so we perceive we're looking back in time, and therefore, the heavens still represent time to us. Heaven, eternity, was time; time is the Primal Will. Submission to the command? To acknowledge the natural order and accept the authority of the Primal Will, the Manifestation, to be humble before the emanating majesty and power as it is, as creation, the face of the Creator, permits rest. All is as it is, as it should be. It is all Good. Plotinus thank you for your perseverance, determination of relation, even at the cost of your own well-being.

Matter, location in space, occurs when the energy produced by the interaction of time and space reaches a decreed quanta. The value, that containment contingency, was calculated by Planck. Light as a photon is located in space particularly at absorption or emission. Light as a wave is located in time when traveling.

The Arche electron/positron located in and out of space and in and out of time takes rest as the proton/anti-proton located in time/space. That discussion will require community consultation.

"Nothing gives rest but the sincere search for truth."
Blaise Pascal

This book, **"O Lord, help Thou Thy loved ones to acquire knowledge and the sciences and arts, and to unravel the secrets that are treasured up in the inmost reality of all created beings."**, is from those searchers, lovers, knowers, wonderers, who came before. Pythagoras, Democritus, Heraclitus, Socrates, Plotinus, Newton, Mir Darmad, James Clerk Maxwell, Max Planck, May Sinclair, Tesla, Carl Jung, Einstein, Dr Paul Dirac EE, John Archibald Wheeler, Feynman, Schrödinger, Hawking, Arthur Tave, Carlo Rovelli, Mauricio Mondragon, Vahid Ranjbar, Steven Phelps, Gerhard Müller and Keven Brown.

So the student, with humility, has repeated "There is no one, but One. " And the Beloved answered, "Ay, There is no God, but Me."

If you like it not personal, the One!
If you like it personal, O my God!
As you like it.

Notes from elderly high school student.
Clyde Arthur Keys

Since the origin of thoughts has not been determined, all thoughts herein are denied as original, perhaps all by way of contemporaries and ancestors. To a fault this student does not correctly credit sources. Over many years, the details got mixed in the blender. If any came from you, please forgive for repeating them without crediting you correctly for your help. Consider this, mea culpa.

1) [Wikipediahttps://en.m.wikipedia.org › wikiTheta](https://en.m.wikipedia.org/wiki/Theta)

2)Source of equal sign:

And to auoide the tedioufe repetition of thefe woordes : is equalle to : I will fette as I doe often in woorke vfe, a paire of paralleles, or Gemowe lines of one lengthe, thus: =, bicaufe noe .2. thynges, can be moare equalle.

Robert Recorde MD *The Whetstone of Witte* (1557).

Source of All Seeing Eye image
<https://www.ancient-origins.net/human-origins-religions/eye-providence-0013057>

*Abdu'l-Bahá

Tags:

Manifestation, Bahá'u'lláh, the Báb, `Abdu'l-Bahá, Hermes, Heraclitus, Baha'i physics, Baha'i cosmology, space, meaning, time, purpose, creative process, quantum collapse, consciousness causes collapse, meaning dual slit, binary consciousness, separation space and time, container space, container time, space in time, space time continuum, primal will, first cause, determination, decree, destiny, indeterminate state, eigenstate, possibility, harmony of science and religion, physics and religion, overlap past and future, cause of consciousness,

Richard Feynman suggested that we examine our proposal and look for every objection that an individual might have to it and be prepared to address that objection. One of the most effective objections to space being physical is that the argument regarding the vacuum container suggested, that if you create a container out of particles and extract all of the air and particles out of the container, it becomes a vacutainer, such as use for drawing blood in hospitals. So the proposal was that you now have empty space in the empty container and you can move it to another location, because you can move that empty space to another location that indicated that space was physical because it could have a physical location in space. However, an alternate perspective is that the matrix

of the walls of the vaccutainer that keeps air particles out. Those container particles were moved through empty space, rather than moving the space within and as it moved it bumps the air particles, of where it's moving to, out of the way. Then it has exist there as containing empty space, how ever, the objection: this did not actually move the empty space that it contained in the previous location. That empty space remained there when the vacuum container particles moved away and other air particles fill the void by the laws of Boltzmann's constant. So that is a perspective that could be taken discrediting space is being physical. However, it was also stated that the space between the earth and the moon move with the earth and moon. We call that phenomenon gravity. Gravitational fields move with their source. Other writings of this student indicate that the physical constants exist, some in space and some in time, and allows the gravitational field to manifest, no gravitational field $\Leftrightarrow$ no gravity. Physical reality is manifestation. The manifestation of the gravity field is the physical aspect. So the space actually creates the manifestation of the gravitational field attributed to mass. Therefore, the space moves with the gravitational field.

The simple and complex proof is for the quantum mechanist is that particle entanglement occurs to particles that are located in space which do not have a reality in time. That is the singular states of two singular particles separated by space share their state because they do not share time.