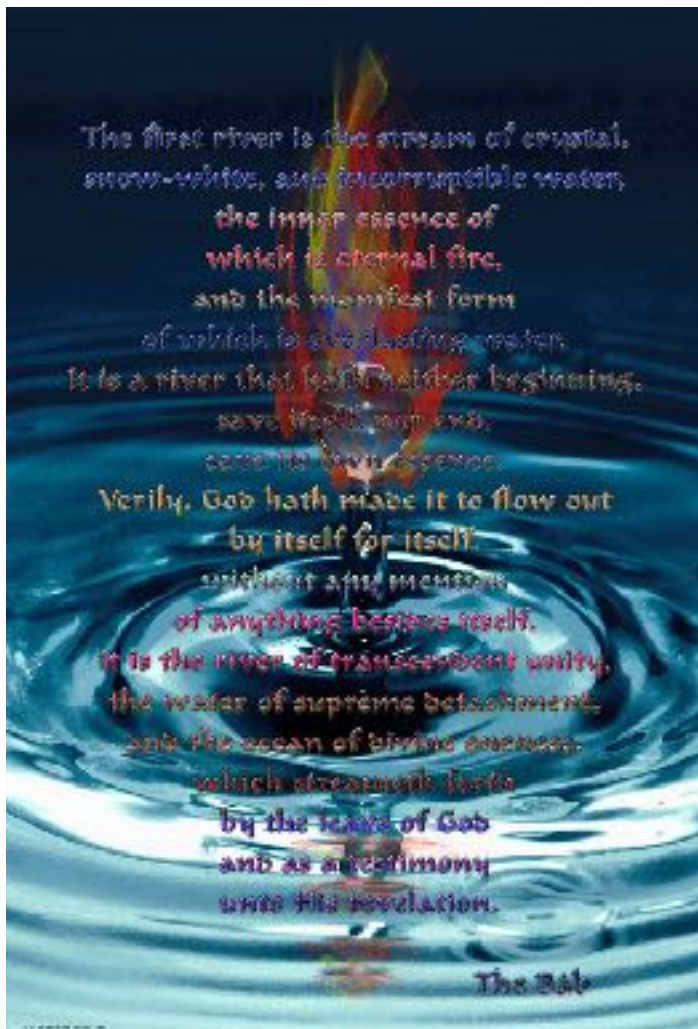


30) Bounded First, Contained Last



Mea culpa, ninguna otra o cualquier institución se hace responsable de este trabajo estudiantil. A word such as Medium could contain googolplex meanings.

Why remain despondent when the Pure and Hidden One hath appeared unveiled amongst you? He Who is both the Beginning and the End, He Who is both Stillness and Motion, is now manifest before your eyes. Behold how, in this Day, the Beginning is reflected in the End, how out of Stillness Motion hath been engendered. This motion hath been generated by the potent energies which the words of the Almighty have released throughout the entire creation. Whoso hath been quickened by its vitalizing power, will find himself impelled to attain the court of the Beloved. ~Bahá'u'lláh



Boundary between air and water allows for the visual expression of the wave energy. The energy is manifested at the boundary. The energy is, actually exists, or is contained primarily in the water as a transverse moving force or pressure event, moving through the water, causing an elevations and troughs of amplitude by the pressure force of the wave itself. Here the *active force* is contained in the medium of the water. The *recipient*, air that allows energy to be manifested by the boundary. If there was no air, the manifestation would not occur. Energy is often symbolized as *heat*. This *interaction* is the reality of boundaries. This is the reality of containers, the process of *creation*.

In 2) Truth $\Leftrightarrow$ Light $\Leftrightarrow$ Conscious it was *questioned*

if the duality of light as a particle and a wave is correctly perceived that light travels in space as particles and travels in time as an event or wave. This was from other physicists verbal associations. This exploration examines the particle $\Leftrightarrow$ wave

behavior deeper. For long time physics has viewed that waves occur and travel in Mediums. This is true, how ever, waves occur but manifest at the boundary between mediums. Sound travels through air, but until it arrives at a boundary of a different medium, it is unmanifest. If the sound is not manifest in space, it essentially does not occur as physical. What is the sound of water dropping on the moon? When sound hits the eardrum, the boundary, it can be heard, manifest. Physics is about the event of phenomenon. Religion is about the manifestation of nomenon.



The $\pi/2$ displacement between waves manifestations is intentional for constancy. This is the slight tweak (G•D slide-rule) that needs to be added. So the proposal is that the character of light relation of particle to wave actually occurs and manifests at the boundary between time and space, the alif boundary, as the particle enters and exits that barrier *rather than* it occurs, manifests as an event in time. Its manifestation travels at the time $\leftrightarrow$ space boundary, at and by the permittivity $\leftrightarrow$ permeability interaction described in **2) Truth $\leftrightarrow$ Light $\leftrightarrow$ Conscious.**

Conscious.

In the dual slit experiment, one light beam encounters, the other lightbeam that's the interaction, the boundary between the two light beams and their interaction manifest the light wave form.

The Manifestation marks a boundary, **Sadratu'l-Muntahá**, between creation and Creator. The We can see the energy, the effect, the reality transformation that their revelation has on the surface of mind $\leftrightarrow$ heart and spirit $\leftrightarrow$ soul very similar to the energy of the boundary between space and air.

In the book, Gate of the Heart by Nader Saiedi is provisional translations some of the beautiful writings of The Báb. The Báb discloses that Divine Revelation comes in 4+1 modes. The modes output He equates to the Kawthar fountain in Islamic tradition. There are four rivers that feed the Kawthar fountain, the Manifestation, The Báb associates each of these modes with one of the rivers feeding the Kawthar fountain.

Modes of revelation:

Crystal Waters = Pure Revelation

Milk = Prayers and Meditations

Honey = Commentary

Crimson Wine = Laws

Fifth Mode = Persian Mode = The beauty of The Báb's particular word play?

In the introduction image is The Báb's literal description of interaction of the Primal Will revealing in the first mode. The Báb describes degrees of revelation, the highest mode of revelation, the crystal water mode, pure revelation.

The Bahá'u'lláh, in *Súriy-i-Haykal* (Surih of the Temple), indicated that He reveals in nine modes. However, He could review in an infinite number of modes.

Once the primary understanding as as it pertains to the Manifestations is taken, is possible to examine other meanings.



This repeated image above conveys the containment of the ocean in a drop. A concept attributed to Rumi and contained, repeated, supported, and expounded in the Bahá'í writings. That is the reality of containment that creates the drop is the same reality containment the creates the ocean, a drop bounded by air, while the ocean is bounded by air and earth. It is the reality of containment they both share. At the boundary of containment is the surface tension of the drop binding the drop and given windless leeway it would form a perfect sphere. This of itself is an interesting dynamic. Shaping of an electron? Shaping of a positron? However, as the containment of the drop in space enters its source, the ocean, the energy of the drop falling is manifested. So we're going to use this for an enhancement of the previous model of electromagnetic propulsion then was what was presented in **2) Truth $\leftrightarrow$ Light $\leftrightarrow$ Conscious.**

Also, in the image above is a hint that maybe, possibly that drop is emerging out of the water below, and that emergence causes a wave of its own. That will be a part of the evolved model of electromagnetic radiation as well.

It's irresistible to pass the opportunity to point out that the drop emerging from the ocean parallels to Primal Will as the pre-existent reality that the Manifestations express. The Drop of the revelation is what emerges according to the capacity and needs of human beings at a particular time. However, in this day, Bahá'u'lláh makes it clear that His revelation is the ocean as he refers to "the ocean of my words". Our contingent understanding is the mere drop. Repeating: the revelation of the Manifestation is a Drop limited by our capacity, human capacity to comprehend at this time in eternity.

So Albert Einstein stated particular light, light as a particle, occurs when it is absorbed or emitted. This needs a slight tweak a century later. Light is a particle in space or time. In time it is a particle of space; in space it is a particle of time bounded by its energy surface. It creates a wave passing from one Medium to the other creating a wave behavior at the alif boundary between time and space.

Ha ⇔ هـ, Huwa ⇔ God

Creates

Alif ⇔ أليف, One ⇔ Will

Creates

Ba ⇔ بـ BAHÁ ⇔ Manifest

Re-Creates

Souls of Believers

Baha = God Will Manifest

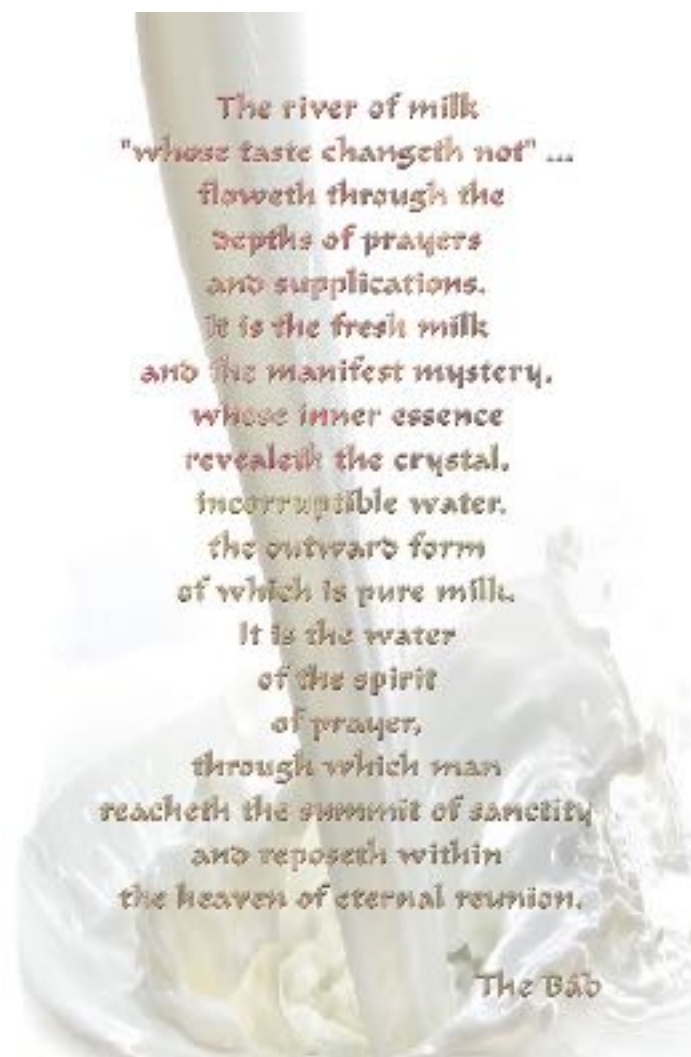
Baha = Light, Glory, Splendor three emanations, three of four sides.

This thesis primarily examines light, secondarily the glory of conscious, tertiary the splendor of association. All this to better perceive the workings of the One, The Unseen.

Please God, if it be thy will, protect this student from being known. May all readers other students take these thoughts and claim them as their own. They are given freely by right in as much they were given to this student. The thoughts were given to this student, who gave you your thoughts? All thoughts come as a gift to all. The ownership of thoughts is an illusion that somehow substantiates the self as being an owner.

It is a non-phenomenon, nomenon. to understand the principle of complementarity qualities in physics, such as location in space and momentum (location in time). Current perception that spatial location and

momentum are complementarity, the basis of Heisenberg Uncertainty Principle. There is another very interesting complementarity, Knowing or being Known. If you know and you share and you become known for knowing as a positive feed back loop, the more you know feeds back like an black box radiation equivalent, therefore the less you have time to know in that your time is spent juggling being known rather than juggling and sorting your thoughts. We could formulate a constant the would mathematically describe this relation... Better not spend the readers time time there.



Second mode of revelation: Prayers and Meditations

A prayer from the Báb for the times we feel alone, specifically revealed for His wife, Khadijih Bagum, to allow her to not feel alone after their separation. He promised, when she offered this prayer, to appear before her. Bahá'u'lláh at the event (April 21, 1863) of His declaration to the world called us to say it "five hundred, nay a thousand times" when needed. These are those times.

Is there any Remover of difficulties save God?

Say: Praised be God! He is God! All are His servants, and all abide by His bidding! ~The Báb

Particle as photon, packet of energy in space or in time, disturbance of boundary between manifests energy as wave. We have some difficulty in physics, measuring things and time. We have difficulty counting positrons because of their existence in time. Time does not exist in the physical universe. Therefore we associate phenomenon to it, but its reality is actually of a different nature than space. Permittivity field linkage space to particle. Permeability field linkage time to space. Permittivity linkage is in space, permeability linkage is in time.

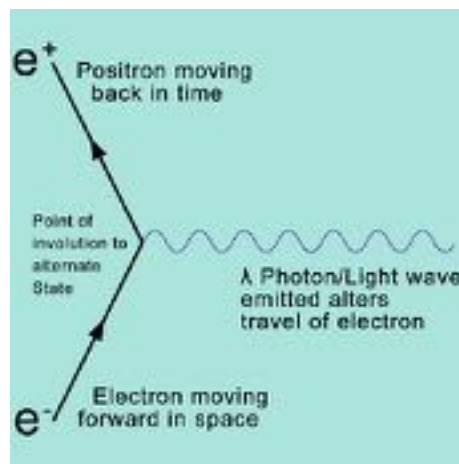
This student is no Michelangelo carving out of the stone of his ignorance, rather merely a Baha'i student who knows by Bahá'u'lláh the study of physics is worship. Please God may there be good from it.

This student asks, how is it that there alif boundary that contains the photon as time separate from space has no mass, when the justification of the cause of mass of the electron was a separation caused by the alif boundary and the same is true of the proton, as it is the cause of the mass of the proton. The best the student can offer is that the alif boundary of the photon is essentially no-thing quantitative, it is purely qualitative. The alif boundary is a single reality, It is the field of one-ness that begets no-thing-ness. As stated one creates zero, $1 \Rightarrow 0$, creates boundary. Therefore, it cannot be

translated to quantitative mass. That is that container, boundary is entirely alif, the Primal Will that separates the time and space of the photon. Alternate understanding: the alif boundary of the photon is thinner than the boundary between this world of time and space and the next world after we leave this one to the world of meaning and purpose. `Abdu'l-Bahá indicates that world is contained in this world. We just don't see the boundary.

The evolution in this exploration indicates that the photon travels forward in space by its negative electric field, it travels back in time as a positive electric field. Its charged (negative or positive by permittivity) motion creates the magnetic field by permeability of time that evokes the next movement direction related to charge of field. The wave is the passing from space to time to space from time. The wave is at the boundary between time and space. The beauty is that the Alif boundary is the surface of particle, photon, container. The negative photon- like the Arche electron- contains space externally and contains time internally; the positive photon+ like the Arche positron contains time externally and contains space internally. Transforming, transposing, transferring from one medium to the other. Transmuting involuting from one particle to the other, (photon- $\Leftrightarrow$ photon+). Transferring from one medium space, to the other, time, causes the wave effect as surface boundary disturbance. That is suggested by

the water drop image. The drop falls to the ocean causing disturbance of the surface. In reverse time it emerges from the ocean causing symmetric disturbance. This is consistent with perception that the drop is going back in time as it emerges from the ocean. It is consistent with perception from Richard Feynman's drawings that positive charge of the positron is going back in time. This is consistent with this structure that the positive field of the photon+ is going back in time. The staggering dance in **2) Truth $\Leftrightarrow$ Light $\Leftrightarrow$ Conscious** is required for the forward effect of light emission and propagation described. None of these ideas are new. All disclaimed as original. Please re-spect Richard Feynman's drawings. These relations are embedded there.



All of this is known to physicists. None of this is new. The only catch is that currently physics thinks time is vectored. It is not. Existence comes from purpose as a consequence of the Primal Will. The First Cause of all is the One. When physicists see the cause of vectoring, then they see the cause of unity throughout physics: so that time and space can be perceived with separate wholeness. Alif equals one. Physicists asked the questions from a viewpoint of the laws of physics all physical events should be reversible. They then decided that entropy is the cause of the direction of the physical laws. This is confusion. Entropy is merely what is left after purpose is fulfilled. Recognizing purpose, as being the cause of the directed path of light is recognition of the hierarchy structure of physics that is parallel to the structure of religion that is parallel to the structure of our conscious. Our conscious has purpose. To know purpose, it is necessary. To no purpose is not. There fore, no $\Leftrightarrow$ purpose is an oxymoron. To receive information from that which pre-existed, that requires the pre-existent Manifestation.

This morning, this student had a reality check. A question rose up: Since we cannot see space and we cannot see time. Where is the evidence for surface of the disturbance of space and time that is

the wave form? Where is the evidence? The evidence would be called light. We see light. Before in time at another place, Bahá'u'lláh informs us that sight is a power of the soul. We seen in our dreams when we do not use a physical eye. We use the power of the soul called mind. The image we see is not on the back of the retina. The image we see is not in the nerves, connecting the eye to the occiput lobe. The image we see is not in the occiput itself. Do an autopsy you will not find any images of what that person saw. If you follow, the reason presented here in by slicing instead through words, you will see the images contained in your own own mind. This student's soul to your soul. This student sees you, do you see this student's thoughts, images as meaningful?

The alternate evidence that space is physical is that if you make the OK symbol with your right hand, spread your thumb and index finger apart. The space in between is sensible, and it has a physical location in the universe. If you put out your left hand and you open it up and wait for time to settle in it, no time will collect in your left hand. Time has no location in space.

So this is a nice reflection from the correlation of **2) Truth ⇔ Light ⇔ Conscious**: the human eye

perceives light, and that is a disturbances between time and space. It is the interaction of time and space. So given the cosmology that was presented in **17) Possibility: Physical Or Non-Physical**, time and space are two planes, dimensions, aspects, degrees of that cosmology. Then consider the relationship between meaning and purpose. If the drop be human conscious is modeled after the ocean, the conscious of the manifestation, then we can understand our own nature by examining Bahá'u'lláh's Revelation, what he speaks, and how he speaks. So the Pen point comprise letters comprise words comprise sentences comprise concepts convey on one hand meaning and on the other hand they convey purpose. That is he is telling humanity purpose of our souls, and he's telling humanity the meaning of our lives, and everything in it. So as His conscious goes from purpose to meaning, He creates waves of a similar nature that is created when light passes from time to space. We have the capacity to perceive recognize this energy coming from the Manifestation as he reflects to us meaning and purpose intertwined very much like the photon is the intertwining of time and space and we can see that light. We can see the divine light in the writing of the Manifestation. We can see purpose intertwine with meaning. By reason. The power by which we understand the writings of the Manifestation. *Reason is purposeful meaningful association for the good.* Our spiritual response to spiritual light. Our physical eye response to physical light. These

analogies are faithful and relevant. They are perfuse in the writings of the Manifestations.

In the document of con-text, **17) Possibility:**

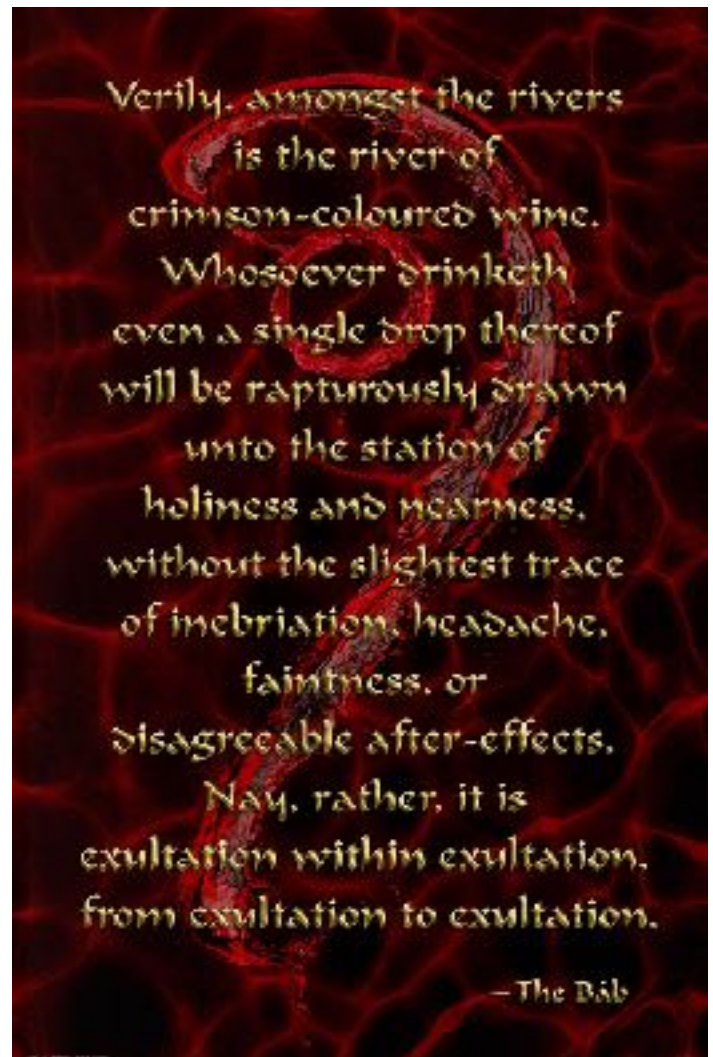
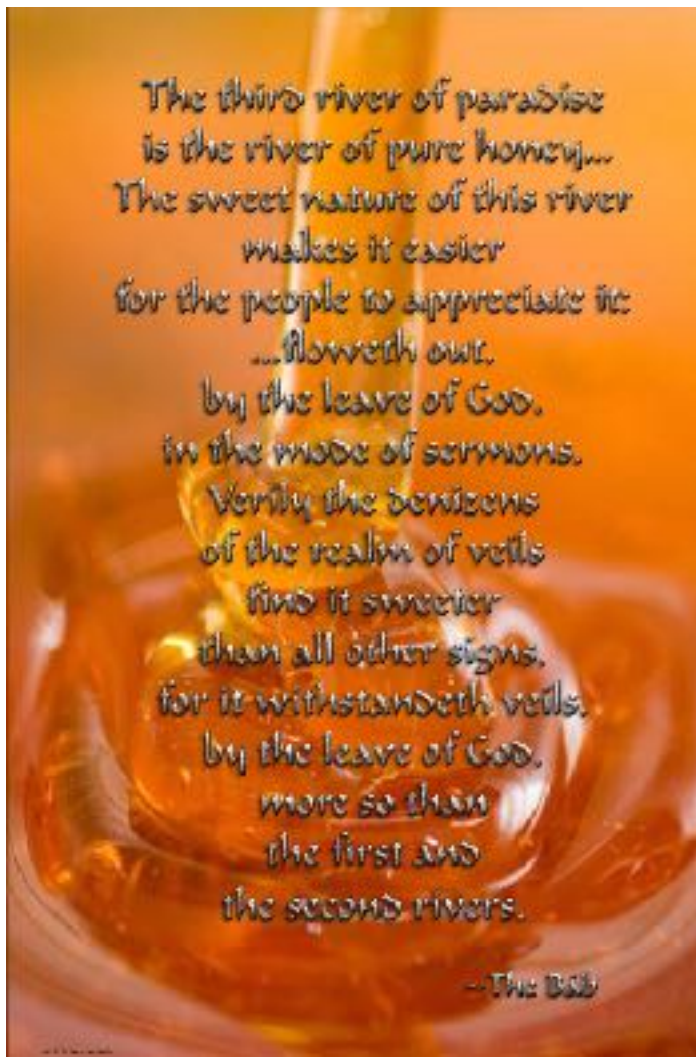
Physical Or Non-Physical the hierarchy of cosmology presents the relation of time to space is the field constant permeability (μ_0) its relation to positive particle, photon+, is direct derivative. Its relation to negative particle, photon-, is derived once removed, second derivative, mediated by space's characteristic of permittivity, ϵ_0 , sin by time; cosin by space. If we examine the sequential derivatives of sine to cosine to negative sine to negative cosign the cosmic dance of electromagnetic radiation is apparent.

Word play from this student's Kentucky home, photon+ is the son of time, photon- is once remove as cousin, co-son of space. Time and space were once thought to be siblings. That is why time mating with space is now forbidden. They were too close in the previous same four dimensional container. Separate rooms, separate containers there by we keep reputation of our family lines of thought preserved. A good editor would throw out this junk. There is no editor to read it.

A beauty of the photon here, which is symmetric to the beauty of Arche electron and Arche positron, is the positive charge is seeking itself in the negative charge and vise⇔versa. It is an act of love for itself.

It is the love of the creation for the creation. "Love is but a veil betwixt the loved one and the lover. More than this, I dare not tell." Alif boundary is the barrier between space and time. Source for concept of alif in foot notes should be the Abstract for this thesis. It contains the essential associations of time to augmentation, diminution, accent (to give special attention or prominence to, this student puts accent on time), and equilibrium, all essential wave characteristics. 1)

What we call time is the active force expressing Primal Will impinging on what we call space expressed as a derivative of time, expressing a variation of Primal Will. Just as The Báb indicates the four modes of revelation, they all have the same inner reality, derived of the "crystal water".



Purpose = Primal Will ⇒

Meaning = First Mind ⇒

Time = First Cause ⇒

Space = Essential Separation, determination,
distinction ⇒

Particle = Primal Point (creation)

All have the same inner reality Primal Will.

The forth mode of revelation?

Think not that We have revealed unto you a mere code of laws. Nay, rather, We have unsealed the choice Wine with the fingers of might and power. To this beareth witness that which the Pen of Revelation hath revealed. Meditate upon this, O men of insight! ~Bahá'u'lláh, The Kitáb-i-Aqdas, the Book of Laws.

Laws are boundaries. Laws are containers. By the laws of physics we begin our lives. May we by the laws of religion complete our lives. Same laws.

We begin as bounded as possibility separate in the testicle in the ovary. We moved to a state of wholeness, oneness in the boundary of the uterus and developed our sensible organs and new capacities. We moved from that container to the container we are in **now** ⇔ **here** essentially bounded by time and space. As we gain new capacities by our conscious understanding, by meaning and purpose, we move from container of space and time, to the container determined by our choices, our deeds, our love determined by how we spent the time allotted. The movement will be finalized when the container of physical sensibilities is ended. We were created as eternal beings, if we come to understand our divine existence, we will, we will to be who we are. May the Good help us.

Elderly Bahá'í student
who is repetitive of others,
Clyde Arthur Keys

1. Tafsīr al-ḥurūfāt al-muqaṭṭa'āt (Commentary on the Isolated Letters) of Baha'-Allah. Provisional translation by Stephen Lambden

Then know that this [letter] "A" (al-alif) is expressive of mysteries relative to all sciences (kull al-`ulum) inasmuch as God hath bestowed upon it a portion of the wonders of His Bounty. [2] Within it is a foreordainment [measure] of knowledge relative to what hath been and what will be. [3] If, for example, thou deduce the [other] letters (al-ḥurufāt) which are inner dimensions (sarā'ir) of this [isolated letter] "A" in the light of that which We have divulged unto thee previously of the four levels [implicit] therein and thou write down [the secrets of] its power of articulation (al-istintāq) and after that divide it according to its four divisions (taqṣīmāt) and thou apply this according to these [four] divisions in line with its requirement in terms of augmentation and diminution (al-iqtidā' min al-taraqqī wa'l-tanazzul), of ascent and equilibrium (al-taraffu' wa'l-tasāwī) there shall assuredly appear before thee something of such mysteries as shall astonish the intellects. [4] And thereby will be evident that which thou hast heard regarding the all-encompassing [comprehensive science of] jafr (al- jafr al-jāmi') and thou shalt attain unto the genesis of the sciences (madbā' al-`ulūm). ~Bahá'u'lláh

Analogy:

Feynman's perception on left relevant and faithful to humanity's



This student's perception on right, one notch off, faithful, not so revenant. May it be after death.