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*"To know the mechanics of the wave is to know the entire secret of Nature."  
Walter Russell*

The psychodynamics of the mind as an electromagnetic structure establishes the nature and reality of consciousness as an interdimensional energy process. It is an electrical process of cause and effect.

Consciousness determines our vibration (frequency and amplitude) When we realize that time and space are really ONE I think we then go beyond a simple understanding. This is what Einstein was talking about concerning frequency (time) and amplitude (energy)...and time traveling - and to me, this would mean being spiritually energized to walk in the 4th dimension freely. Physics states the 4th dimension exists (subsequently physicist say 10 dimensions exist that they have mathematically figured so far), we can thus apply it to other spiritual areas as in various mysticism practices.

When our energy-amplitude is raised higher it is synonymous with our frequency (time) getting higher. When our frequency raises the distance between the waves are closer, therefore shortening time considerably. So Time is the distance between two points. What your amplitude-energy is determines how efficient you travel that time line.

For instance, You are standing by me...you raise your energy, which raises your frequency [if you are efficient at it {efficient in science is least amount of work for the energy expended)]. You dart across the room and come back to standing by me. I do not see you - except for the transition period of your energy ..you coming and going. You might look like a fuzz of light at first..(dart across the room and come back) then a fuzz of light again. This is all that would be

noticeable. Or perhaps if one is in movement while this energy transition is taking place, we may observe a "blurring" and see many different phases as in seen in someone taking consecutive pictures of a track and field long jumper. The realities are "blurred" together, and as physics states, can be seen in the multiple dimensions at once.

This parallels the concept of the Superstring theory which assumes there are an infinite and alternate series of parallel universes that exist. The viewpoint of many theoretical physicists: light is a vibration of the unseen 4th dimension. What is light? Light, electricity, and magnetism are manifestations of the same thing called electromagnetic radiation that encompasses the electromagnetic spectrum in which only a small fraction of light is visible to us.

When we do the "dart across the room" experiment, only the small visible light will be seen as a fraction of the whole energetic transition.

#### **Music:**

When we resonate as in the above example, it can also be viewed as "musical notes" that represents a mode of vibration, a distinct resonance or particle. Michio Kaku a physicist and author of "Hyperspace" states, "Matter is nothing but the harmonies created by this vibrating string..The laws of physics can be compared to the laws of harmony allowed on the string. The universe itself, composed of countless vibrating strings, would then be comparable to the a symphony."

*"The energy of the heart, right down to our DNA is musical and rhythmic in nature. Geneticist, Susumu Ohno at the Beckman Research Institute of the City of Hope in Duarte, CA, has translated the 4 nucleotides on the strands of DNA. When performed, listeners compared it to Bach, Brahms and Chopin. Listeners were moved to tears."*

"The universe consists solely of waves of motion...There exists nothing other than vibration." relates Walter Russell in "A New Concept of the Universe". In vibratory physics, the principles that make sound into harmonious music are the same principles that govern all associating vibrations throughout the universe - and that includes everything that there is. Vibrations are dynamic things not unlike "living" things since they are in a mutual state of "harmony".

When sound harmonics form direct harmonic relations the two vibrating sounds and their chords of vibration are said to be sympathetic to each other. In other words, resonance - like attracts like. This combined frequency dictates that what happens to one vibratorily happens to the other simultaneously in varying degrees of harmony or dissonance. This is the Law of Cycles as presented by John W. Keely's "Law of Sympathetic Vibratory Physics".

*"Music is formless and is therefore the perfect expression of the formless."  
Inayat Khan*

Musical notes or sounds can be converted numerically as in the example in the previous section regarding the Fibonacci numbers found in nature. According to mathematics principles, a series of vibrations will multiply many times its own pitch, thus increasing harmonically all those that are near. This is the Law of Harmonic Pitch.

This multiplication of frequency and amplitudes is thought of in relation to the Ascension process. All things are energy, thus our "energy bodies" are becoming more attuned, reaching a higher vibrational rate, to the dynamic energetic force of the Universe. Extending and expanding vibrational rates happens in nature and we are merely a part of nature, so we should too, in theory, be capable of "ascension" as dense physical material beings.

**Sound:**

*"He made the whole world an instrument of sound, and an instrument for carrying messages, resounding praise to the Creator of all.  
Frank Waters - The Book of the Hopi*

There is something called the Sacred Sound Current which correlates to the spiritual Hindu "OM" and the Sufi "HU", and the Sant Mat "Shabd". This Music of the Spheres, Logos or Word as called in mystical teachings, goes beyond our limited spoken language. Such ethereal music is referred to also as the Sound of God or the Breath of God since the sound permeates all things. And as we know, all things are composed of energy.

This all pervading sound in the current of the Ocean of Consciousness is believed to be the connecting link between God and man. The

divine currents are always playing a symphony of ethereal music, however, it does not become audible until we have progressed spiritually enough to hear with the inner ear. Additionally, many mystics, ancient and modern, have reported seeing various colors with the inner eye(s) while in meditation.

As physics deems, all is in a vibrational state, and thus can be converted into mathematical renditions, musical notes and color frequencies. Shabd is believed to be the pinnacle point of all the powers of nature in which, according to scriptures, is the method in which God creates.

*" I dwell in undefiled Light and a Thought revealed itself perceptibly through the great Sound...And it is a Word by virtue of the Sound; it was sent to illumine those who dwell in darkness...I am a Light that illuminates the All. I am the Light..."*  
Trimorphic Protenoia - Nag Hammadi

Light and Sound is also viewed as synonymous with each other in the ancient scriptures. This has been mentioned in various contexts within this site as well. They are Interconnected and part of the Whole within the wave/particle duality.

We can parallel the holographic universe concept with what Philo of Alexandria's wrote circa 40 CE, "The whole creation, this entire world perceived by our senses is a copy of the Divine Image...But the shadow of God is his Word which he used like an instrument when he was making the world. And this shadow, and, as it were, model, is the archetype of other things.." We can also note the similarity to Carl Jung's archetypes within the collective unconscious.

*"The musician is very close to mysticism, far closer than the philosopher...because music is meaningful without any words; it is meaningful simply because it rings some bells in your heart..creates a synchronicity between you and itself, when your heart starts resonating in the same way, when you start pulsating in the same way."*  
Osho, *Philosophia Ultima*

### **Frequency:**

There are known quantitative frequencies that have been measured that illustrate the body and energy connections with comparative measurements to the world around us:

*note:*

<sup>^</sup> = means to the power of 10<sup>-8</sup>, 10 the minus 8 power

Gamma Rays	10 <sup>18</sup> to 10 <sup>26</sup> hz
X rays	10 <sup>16</sup> to 10 <sup>20</sup> hz
Ultraviolet Light (UV)	10 <sup>15</sup> to 10 <sup>17</sup> hz
Visible Light	10 <sup>4.7</sup> to 10 <sup>15</sup> hz
Infrared Rays	10 <sup>11</sup> to 10 <sup>4.7</sup> hz
Radar Waves	10 <sup>9.5</sup> to 10 <sup>11.5</sup> hz
Microwaves	10 <sup>8</sup> to 10 <sup>9.5</sup> hz
Television Waves	10 <sup>6</sup> to 10 <sup>8</sup> hz
Radio Waves	10 <sup>1</sup> to 10 <sup>6.5</sup> hz
Elf Waves	10 <sup>1</sup> hz

Earths Ionosphere Cavity Resonance -  
Schuman Field ranges from 1 Hz to 30 Hz -  
Radiation Spectrum

Audio20	20,000 Hz
Ultrasonic	20,000 Hz - 100- kHz - 10 MHz
Radiofrequency	150KHz-1.5 MHz
High Radio Frequency RF	1.5MHz-40 MHz
Very High Radio Frequency VHF	40MHz-100MHz
Ultrahigh Radio Frequency UH	over 100MHz

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Brain:

Alpha 8-13 cycles/sec - relaxed alert

Beta 14-30 -intense mental  
concentration, agitation

Theta 4-7 Hypnogogic

Delta 5-3.5 Sleeping

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Human Tolerances to sinusodal vibration

Head Pain	13-30Hz
Impaired Speech	13-20Hz
Jaw Pain	6-8Hz
Chest Pain	5-7Hz
Abdominal Pain	4.5 - 10 Hz
Human Body Cell	1,520,000 to 9,460,000 Hz

Upper Limit of Human Hearing	15,000 Hz
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Molds, viruses, bacteria, worms, mites range from 77 KHz to 900KHz

Warts	400-430Kz
Tapeworms	420-450Khz
Mites	640KHz - 850KHz
Ant	1000 to 1200KHz
Goldfish	900 to 1500Khz
Chameleon	1000 to 6000KHz
Cat	1500 to 8000Khz

*"Biological systems are influenced by the terrestrial electrical environment. This environment includes electric fields, magnetic fields, field modulations, and aerion(positive and negative) concentrations, and biological waves. Nature ordains harmonious variations of these factors. The human organism exhibits revealing electrical characteristics.*

*Electromagnetic brain waves (0.1 to 30hz) occur at frequencies paralleling those of terrestrial sferics and the Schuman resonance. Decision making abilities are subordinate to alpha, beta, gamma(.01-5hz), theta(4 - 7hz), and delta(0.1-4hz) brain rhythms with their related states of consciousness."*

*Symposium on Biological Effects and Measurement of Biofrequency/Microwaves, Department of Health, Education, and Welfare, FDA - Critical Aspects of Human Versus Terrestrial Electromagnetic Symbiosis, E. Stanton Maxey, M.D. , 1977*

### **Duality:**

As we have learned thus far, all life, coexisting together at the same time, is both matter and space: movement and stillness, sound and silence, light and darkness. As we have seen earlier, the wave/particle duality (Non-Locality) means that everything is joined or connected together. This duality also means that objects that appear to have seemingly opposite properties are of the same substance but in a different form or density of a vibrational level.

It is believed that Earth in what is deemed as a "free will zone"..the ongoing battle between the positive and negative forces, the dark vs. light. Scientifically speaking, there is no

difference, just differences in frequencies and amplitudes. Simplistically speaking, we are all one.

*"light and shade, long and short, black and white, can only be experienced in relation to each other; light is not independent of shade, nor black of white. There are no opposites, only relationships."*

*Lankavatara Sutra From "Buddha Speaks"  
Anne Bancroft 2000*

Another example of this polarity principle is found in sound harmonics. Fields may be enharmonic on one level but harmonic on different levels. Enharmonic would be like plucking a guitar string and allowing it to vibrate freely. The sound and the frequencies of the corresponding vibration are no longer exactly in the same frequency ratio. Harmonics, is the vibration multiples of the same frequency.

The Taoists also viewed the dynamic interplay between the polar opposites as yin and yang. This pair of opposites share a polar relationship where the two poles are dynamically linked to the other and found throughout nature.

This idea of implicit unity of all opposites can be extremely difficult to accept. However paradoxical it may seem to some, Eastern philosophies have always been considered this as essential for attaining enlightenment to go 'beyond earthly opposites,' and in China the polar relationship of all opposites lies at the very basis of Taoist thought. In the Tao of Physics, "Thus Chuang Tzu says, The "this" is also "that." The "that" is also "this." . . . That the "that" and the "this" cease to be opposites is the very essence of Tao. Only this essence, an axis as it were, is the center of the circle responding to the endless changes."

This ancient wisdom of duality is the essence of the Tao. It also appears to be the essence of physics.

*"Every explicit duality is an implicit unity."  
Alan Watts*

Heraclitus the Greek philosopher also realized that all opposites have a unity and relativity. "The way up and down is one and the same," and "God is day night, winter summer, war peace, satiety hunger."

Science and religion also represent a

complimentary pair of polar opposites residing within a highly complex paradox. If we view these opposites as the ends of the light spectrum, we have a diverse range of human culture and ideals. These cultural dimensions in this range quantify the ideal of "unity of diversity", biologically, ecologically and sociologically. In "The Wisdom of Thich Nhat Hanh", he eloquently says, "Realizing the interdependent nature of dust, flowers, humans, we see that unity cannot exist without diversity. Unity and diversity interpenetrate each other fully."

The full magnitude of the paradox disappears in the light of diverse duality.

*"Life starts with the knowledge of diversity, but the awareness of unity is the pinnacle of life."*

*Hazrat Inayat Khan*

### **The Kybalion:**

The Kybalion encompasses the study of "The Hermetic Philosophy of Ancient Egypt and Greece". This is considered as the life work of Hermes Trismegistus who was considered to be the "scribe of the gods". This Greco-Egyptian philosopher and mathematician reportedly had written tens of thousands of volumes of books revealing to humankind the healing arts, magic, writing, astrology, science, chemistry and philosophy. This was a time of unity between the scientific and religious studies.

Hermes also built several pyramids and reportedly even taught the great mathematician Pythagoras. Oddly enough, Hermes is considered the "Great Central Sun of Occultism". Perhaps Hermes was the living embodiment of duality as he inscribed some of the earliest accounts of the secret of the ultimate reconciliation between the meta-physical science and religion. His wisdom follows in excerpts from the Kybalion. The parallels to "modern" thinking are astounding.

"Everything is Dual; everything has poles; everything has its pair of opposites; like and unlike are the same; opposites are identical in nature, but different in degree; extremes meet; all truths are but half-truths; all paradoxes may be reconciled."

"The same Principle manifests in the case of "Light and Darkness,"

which are the same thing, the difference consisting of varying degrees between the two poles of the phenomena"

"The "Art of Polarization becomes a phase of "Mental Alchemy" known and practiced by the ancient and modern Hermetic Masters. An understanding of the Principle will enable one to change his own Polarity, as well as that of others, if he will devote the time and study necessary to master the art."

"The teachers claim that illustrations of this Principle may be had on every hand, and from an examination into the real nature of anything. They begin by showing that Spirit and Matter are but the two poles of the same thing, the intermediate planes being merely degrees of vibration. They show that THE ALL and The Many are the same, the difference being merely a matter of degree of Mental Manifestation. "

By looking carefully at the nature of opposites, we might realize that each pole actually incorporates its opposite, in one form or another - as an essential component of the whole.

*"To understand the whole it is necessary to understand the parts. To understand the parts, it is necessary to understand the whole. Such is the circle of understanding."  
Ken Wilber, Eye of Spirit*

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