

THE REAL WORLD OF MODERN SCIENCE, MEDICINE AND QIGONG

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Introduction

Humankind is concerned with scientific enquiry because he/she want to understand the milieu in which they find themselves. She/he want to engineer and reliably control or cooperatively modulate as much of their environment as possible to sustain, enrich and propagate their life. Following this path, the goal of science is to gain a reliable description of all natural phenomena so as to allow accurate prediction (within appropriate limits) of nature's behavior as a function of an ever-changing environment. As such, science is incapable of providing us with absolute truth. Rather, it provides relative knowledge, internally self-consistent knowledge, about the relationships between different phenomena and between different things.

The goal of engineering, on the other hand, is to build on this fundamental understanding in order to generate new materials, devices, structures, attitudes, moralities, philosophies, etc., for producing tangible order, harnessing the latent potential in nature's phenomena and expanding human capabilities in an ever-changing environment. In this context, medicine is to human biology as engineering is to physical science.

As each of us rides the "river of life", the great consciousness adventure, we perceive events occurring around us but more often than not, we do not perceive the total information content inherent in those events nor the true reality of those events. For the latter point this is so because, what we take as the reality of an observation is actually a convolution between (1) what our sensory system actually senses and (2) our mindset or belief structure that filters and/or selectively amplifies segments of the basic gathered data stream. Further, only what we call the 5-physical senses are well-developed and integrated in our overall sensory system so only a portion of the total available data becomes our basic internal data stream. We are thus always making personal observations through the distorting and spectrally-limited lens of our mindsets and we have no way at present to perform a deconvolution and perceive the pure information inherent in our basic input data stream. By using designed instruments to access information patterns in nature, we gain a more objective perspective of these events. However, we must always remember that these instruments were designed on the basis of the logic of our average cognitive development and therefore probably also have only a limited access to the total information spectrum for these events occurring in nature. In particular, these instruments only respond to positive energies.

Over the course of the past 4-5 centuries, we have learned how to conduct true scientific investigations, first under the rubric of classical mechanics and, more recently, quantum mechanics. Let us now look a little more deeply to see what this means.

Pathways to Scientific Understanding

The time-honored method of scientific inquiry for a new phenomenon is to treat it as a “black box” whose internal characteristics are unknown but are amenable to probing and analysis. One applies some appropriately selected input stimulus (IS) to the box and determines its output response (OR) to the specific stimulus. By varying IS and correlating the OR with the IS, one deduces information about the most probable behavior of the box for this magnitude of stimulus. One then speculates on models of nature that would first qualitatively and quantitatively reproduce such a spectrum of responses. Then one proceeds to design critical tests for discriminating between the initially acceptable models.

Since the true and lawful nature of the box would have a much more complex and “rich” expression than we can obtain by this limited probing, the exact and complete response function for the box may be characterized by the following general functional form⁽¹⁾

$$\frac{OR}{IS} = f(\varepsilon_1, \varepsilon_2, \varepsilon_3, \dots, \varepsilon_n; X_1, X_2, X_3, \dots, X_n) \quad (1a)$$

Here, f represents the exact and complete functional relationship between all the possible material parameters, ε_j , and all the possible experimental variables, X_j of the system where unlimited range of magnitude is allowed for these parameters and variables.

Because, at any point in time, one has limited cognitive awareness of all these parameters and variables, a limited array of probe stimuli, probe measurement accuracy, financial resources for the probing and limited patience for endless data gathering, one settles for the following functional expression as the “operational” response function for the box

$$\frac{OR}{IS} = f'(\varepsilon_1, \dots, \varepsilon_j; X_1, \dots, X_j) \text{ for } \varepsilon_j' < \varepsilon_j < \varepsilon_j''; X_j' < X_j < X_j'' \quad (1b)$$

This operational response function, f' , involves a limited but sufficient number of parameters and variables with bounded ranges ($\varepsilon_j' - \varepsilon_j''$ and $X_j' - X_j''$) for a satisfactory degree of reliability. It is this type of response function that one tries to match with a model so that our successful models simulate “idealized” nature rather than “actual” nature.

This is a practical procedure that has been very fruitful for an evolving humanity and it provides meaningful but relative truth concerning this aspect of nature. Over time, people tend to become attached to the theoretical model that has been fashioned to fit idealized nature (Equation 1b) and tend to forget that they are not dealing with actual nature (Equation 1a). This attachment can become so strong that a rather rigid mindset can develop in the scientific community concerning it and it becomes the scientific world view or paradigm for an extended period of time. However, periodically in time, the prevailing paradigm is unable to accommodate some new sets of experimental observations so pressure begins to develop to change the accepted form of Equation 1b and this would constitute a paradigm shift.

Paradigm shifts in physics do not occur easily because the old mindset of the establishment has great inertia to change for a variety of reasons. Such a shift began a century ago with the, then, new concepts of discrete quantum packets of change plus

the relativistic coupling of the separate coordinates, distance and time, into an indivisible space-time. These new concepts violated certain basic assumptions inherent in the prevailing perspective of classical mechanics and they were strongly resisted. Today, these concepts are well accepted but it has taken a century of productive and fruitful work to make it so.

Now, a century later, the prevailing physics model is unable to incorporate the robust experimental observations concerning, psychoenergetics, ESP, remote viewing, distant healing, homeopathy, qigong, mind and emotions into its internally self-consistent picture. Thus, physicists must either deny the existence of such observations as being valid observations or they must expand their model of nature sufficiently to incorporate them into a larger view of nature. Unfortunately and perhaps predictably, at the moment, most of the scientific establishment has preferred to “sweep all these observations under the rug” rather than accept the limited nature of their present perspective and thus proceed forward to define and explore the larger truth.

Because humankind continues to grow steadily in consciousness while continuing to refine and expand its experimental tools for probing nature, a wise society would periodically assess whether or not their current formulation of Equation 1b is still a valid approximation to the truth of all the experimental observations gathered by their community. One must really expect that, with the passage of time, our old relative truth must be periodically replaced with a new relative truth as a course correction for our trajectory towards enlightenment (Equation 1a).

Before moving onwards to discuss the strength and weaknesses of our current quantum mechanical perspective on nature, it is useful to place an operational number on $\epsilon_j + X_j$ for a typical problem in various fields of human activity. This then gives us a relative measure of the cost in either dollars or human-years of effort needed to bring the various fields to the same level of reliability. These $\epsilon_j + X_j$ numbers for a typical problem in these fields are: physics (~4), engineering (~7-9), materials science and geology (~20), medicine (~50-100), psychology (~200-500) and sociology (~1,000). The more complex the system, the larger is the network of experimental grid points needed to survey the $\epsilon_j + X_j$ space so that the cost and human-years of effort increase as a power law depending on grid spacing and the degree of reliability chosen, with $\epsilon_j + X_j$ as the exponent. Following this approach, one can readily see why physics generates a fairly reliable science-based technology while several of the other fields are still in the art-based technology stage of development⁽¹⁾.

A Personal Perspective on Quantum Mechanics (QM)

Today, QM is the most quantitatively accurate and the most powerful theoretical procedure in the entire arsenal of physics. Thus, when we want to describe nature, of any variety or expression, we would expect the most effective description to arise via a QM procedure or an extension thereof. However, although properly applied QM is very accurate, it has many limitations to its use, especially for macroscopic objects and macroscopic phenomena. Present-day computer capacities limit the QM computations to only microscopic size objects containing a few atoms or to crystals containing only a few atoms per unit cell. This puts most phenomena of our day-to-day experience completely beyond the scope of today's QM computations. Certainly, even the most simple biological molecules of real interest are beyond this scope.

Perhaps even more limiting is the fact that QM, even for very small systems, doesn't provide much insight into, or intuition about, the fundamental interactions and

processes taking place during an event being computationally treated. Thus, today's QM behaves very much like a "black box" where one inputs the initial conditions, turns a mathematical crank on the box and eventually receives a precise output from the box. To expand the usefulness of QM it is necessary to invent some procedure for seeing something of the structures operating inside the black box!

The black box aspect of QM seems to have come about because the originators constrained the formal representation of their theory to a single 4-space (3-distance plus 1-time), what we call physical space-time or our normal cognitive domain. Because of this restriction, a variety of conceptual dichotomies arose as residues of this approach. Three of these are (1) the concept of wave/particle duality, (2) the concept of non-local forces and (3) the concept of broken symmetry between electric and magnetic monopoles. In addition, a second level of strange characteristics associated with QM related to (1) the Heisenberg uncertainty relationships that connected a particle's uncertainty of position, Δx , with its uncertainty of momentum, Δp , and its uncertainty of energy, ΔE , with the uncertainty of its time location, Δt , and (2) the dematerialization of a particle into the vacuum and the rematerialization of a seemingly identical particle at another position in space-time. These two levels of dichotomies have confounded our imagination for three-quarters of a century but perhaps they provide a clue for a place to start in order to modify present QM and actually look into its black box substructure.

To achieve this worthy goal, we will start by attending to only the first level of dichotomies mentioned above beginning with wave/particle duality and its origins. In the 1920's, de Broglie proposed the concept that every particle had a pilot wave envelope enclosing it and moving at the particle's velocity. This concept required some new wave components to move into the envelope and some old wave components to move out as the envelope moved along. If we call the particle velocity, v_p , and the velocity of the moiety writing the wave, v_w , then relativity theory requires that the following relationship hold

$$v_p v_w = c^2 \quad (2)$$

where c is the velocity of light. Since $v_p < c$ always, v_w must be $> c$ always and these waves were denoted as "information" waves in order to not make trouble for relativity theory. Subsequent experiments showed that particles like neutrons, protons, electrons, helium atoms, etc., all exhibited wave-like behavior and de Broglie received a Nobel Prize for his seminal work. Depending upon the design of a particular experiment, the results showed either particle-like or wave-like behavior. Thus, this simultaneous wave/particle behavior of de Broglie's was incorporated into QM as wave/particle duality and came to mean either/or rather than both to many physicists.

Here, we firmly return to the original concept of nature expressing itself simultaneously via it's particle aspect and it's wave aspect and ask how one might formally express this without losing one aspect or the other. Long experience with the particle aspect has shown us that distance-time or (x, y, z, t)-space, which we call direct space or D-space, is a satisfactory coordinate system for describing the behavior of this aspect of substance. We have also used this coordinate system for describing wave motion, even though all the waves of our cognitive experience are merely modulations of particle fluxes or particle densities in space-time. It is probably the misinterpreting of this class of wave with the de Broglie pilot wave that causes QM's founding fathers to confine the theory to a purely (x, y, z, t)-formalism.

A more appropriate coordinate system for describing de Broglie-type waves is a reciprocal space or R-space system ($x^{-1}, y^{-1}, z^{-1}, t^{-1}$). Each of these coordinates is a frequency; (1/distance) equals number per unit distance or a spatial frequency and

(1/time) equals number per unit time or a temporal frequency. In solid state physics, wave behavior in R-space is described using a wave number, (k_x, k_y, k_z, k_t) -notation where each $k_j = 2\pi/\lambda_j$ with $j = x, y, z, t$. Thus, although it is not wrong to describe both the particle aspect and the de Broglie wave aspect in terms of (x, y, z, t) -space, as is done in QM, such a procedure badly entangles the two aspects and leads directly to the QM-black box obscuring of nature. For this reason, a better approach would be to keep the particle aspect and the wave aspect separate, using the D-space coordinate system for the one and the R-space coordinate system for the other. This dual four-space system would be called a biconformal space.

Following this approach, any formal description of substance behavior would involve at least the eight coordinates $(x, y, z, t; k_x, k_y, k_z, k_t)$. However, since $v_p < c$ and v_w must be $> c$, the two aspects cannot directly interact with each other because of relativity theory. However, they clearly do so in the de Broglie particle/pilot wave picture. Thus, it is necessary to invent the presence of an additional substance existing in nature that functions in a domain outside of this biconformal space. This substance is in no way constrained by relativity theory and can couple to both the particles of D-space and the moieties that write the waves of R-space.

In this author's modeling⁽²⁾, the moieties of this coupling substance are thought to be from the nine-dimensional domain of emotion and have been labeled deltrons using the symbol δ . This means that any formal description of substance behavior in nature involves at least nine coordinates $(x, y, z, t; k_x, k_y, k_z, k_t; C_\delta)$ where C_δ is the cosmic background, activated deltron concentration. This approach definitely expands the functional form of Equation 1b. When human intervention, via human consciousness in the form of intentionality, acts on nature, one must add at least one more coordinate to any meaningful description of nature. Thus, a formal description of nature, which includes human intention and human emotion, involves at least ten coordinates $(x, y, z, t; k_x, k_y, k_z, k_t; C_\delta; I^*)$ where I^* represents the intensity of human intention which, in turn, has an influence on the magnitude of C_δ . With such a base-space, it is now possible to formulate an expansion of QM to allow meaningful discussion of experimental observations concerning psychoenergetics, ESP, remote viewing, distant healing, homeopathy, mind and emotion in our collective human experience. Now, these ten coordinates become the minimum possible set of independent variables, x_j , needed to develop a meaningful Equation 1b-type of description for integrated medicine. The minimum possible set of independent material parameters, \square_j , are yet to be determined for this application.

Why I^* and C_δ Are Important to Science

Based on the present paradigm, the conventional viewpoint is that humans cannot meaningfully interact, via their intention, with physical level target experiments. Even more strongly, this viewpoint would state that human intention cannot possibly be captured in a simple electronic device and then have the device meaningfully interact with physical level target experiments. However, over the course of the past five years, we have conducted four very different target experiments using intention imprinted electronic devices (IIEDs) and found robust interaction between these simple devices and the target experiments - - in complete opposition to the conventional viewpoint.⁽²⁻⁸⁾

On the experimental side, for each target experiment one starts with two identical physical devices housed in plastic cases about 7" x 3" x 1" in size (contains 3 oscillators in the 1-10 MHz range with total output power less than 1 microwatt). We take one of these devices, wrap it in aluminum foil and place it in an electrically grounded Faraday

cage (FC). This is our control device. The other device is imprinted with a specific intention for a particular target experiment and then also wrapped in aluminum foil and placed in its own FC until the next stage in the process. The FCs and aluminum foil are needed to keep information transfer from occurring between the IIED and the unimprinted control device. The next stage in the process was to ship the wrapped devices on separate days via Fed Ex ~2,000 miles to a laboratory where others placed them in individual FCs until they are to be used in their specific target experiment.

The typical way in which the devices are used in an experiment is to place one or the other about 6" from the active center of the experiment and just turn it on for the duration of the experiment. We have found that the experimental results with a specific IIED change robustly according to the imbedded intention⁽³⁾ as compared to the use of a control device.⁽³⁾

The actual imprinting is carried out by four accomplished meditators who exhibit a high level of inner self-management at mental and emotional levels. On entering a deep meditative state, they mentally cleanse the area surrounding the device to create a "sacred space" and, when accomplished satisfactorily, one first verbally reads and all four mentally hold the specific intention for about 15 minutes. Then they totally release the intention and proceed to mentally seal the device against unwanted imprint "charge" leakage before returning to their normal state of consciousness.

Four (three plus one) specific target experiments have been carried out to date. They are:

(1) The specific intention was to increase or decrease (required a separate IIED for each intention) the pH of purified water by one full pH-unit. This is a change in hydrogen ion concentration by a factor of ten. We have been completely successful in achieving both of these goals with a pH-measurement accuracy of ± 0.01 pH-units.^(4,5) Thus, here, we are not searching for a weak signal down amongst the noise because our results are 100 times the measurement accuracy, a very robust result indeed!

(2) The specific intention was to increase the [ATP]/[ADP] ratio in developing fruit fly larvae so that they would be more fit and thus have a significantly reduced larval development time, $T_{1/2}$, to the adult fly stag. Experimentally, we found that both the [ATP]/[ADP] ratio and $T_{1/2}$ changed significantly (about 10%-20%) when the IIED was used compared to the control. All of this yielded excellent statistics with $p < 0.001$.^(5,6)

(3) The specific intention was to increase the in vitro thermodynamic activity of the liver enzyme alkaline phosphatase (ALP) by a significant amount. This was achieved with an increase of about 20% for the IIED compared to the control device and, once again, the statistics were excellent ($p < 0.001$).⁽⁷⁾

(4) With repeated tests of the above three experiments over a many month period, phenomena began to appear⁽⁸⁾ which suggested that, at some level of nature, significant structural changes were occurring in the actual space surrounding the experimental locale. This change we labeled "conditioning of the space". This "conditioning" of the local space was a necessary prerequisite for achieving such robust success with the above mentioned three target experiments. Later, we created an IIED just for that specific purpose in a new unconditioned locale and found that it required ~3 months of treatment to create a new "conditioned" space with our present devices. One important signature of a conditioned locale is the effect of DC magnetic field polarity (North pole vs. South pole) on the pH of purified water. As expected in a normal unconditioned space, where we expect U(1)-electromagnetic Gauge physics to apply, there is zero difference between the two DC magnetic field polarities ($\Delta p = \text{pH(N)} - \text{pH(S)} = 0$) However, in one of our conditioned locales, ΔpH can be positive or negative and larger in magnitude than 1 full pH-unit.⁽⁷⁾ This is the kind of behavior that one expects from SU(2)-electromagnetic Gauge physics, a higher level of symmetry in the

universe where both electric and magnetic monopoles coexist. It suggests that the IEDs are increasing the activated deltron concentration, C_{δ} , in the locale so that a greater level of coupling occurs between the direct space substance and the reciprocal space substance (which is magnetic monopole-related).

These four target experiments have provided very remarkable results which are certain to confound our physics, biology and medical colleagues. However, the experimental data speaks for itself in spite of entrenched belief systems held by others. These results strongly suggest that I^* and C_{δ} are important thermodynamic variables for processes in nature and that there are important domains of nature's expression which are mostly "unseen" by the probes of today's accepted physics. Now, let us see how nature might be structured to allow human intention to significantly influence physical reality.

A Multidimensional Model of Nature⁽²⁾

This model has been laid out in great detail in reference 2 so, here, we will just consider a "metaphor" version of the model which has particular relevance to the field of integrated medicine.

My working hypothesis is that we are all spirits having a physical experience as we ride the "river of life" together. Our spiritual parents dressed us in our biobodysuits and put us in this playpen, which we call a universe, in order to grow in coherence, in order to develop our gifts of intentionality and in order to become what we were meant to become - - effective co-creators with our spiritual parents.

On this planet, these biobodysuits come in a wide variety of colors and two unique morphologies that we choose to call genders. Each biobodysuit has four main layers: (1) the outer layer is the electric monopole substance layer (direct space-time layer), (2) the first inner layer is the magnetic monopole substance layer (reciprocal space-time layer), (3) the second inner layer is the emotion domain layer (nine-dimensional) and (4) the third inner layer is the mind domain layer (ten-dimensional). And inside these four layers is a portion of our spirit self (eleven-dimensional and above) which drives the vehicle. So think of this multilayer suit as a kind of "diving bell" or apparatus that our spirit self uses to sense and experience this peculiar earth environment.

All of these inner layer substances function in what we presently call "the vacuum" level of nature (the space between the fundamental particles making up the atoms and molecules of our bodies) and, the more structurally refined are these layers, the larger is the amount of our high spirit self that can inhabit the biobodysuit. What are known as the four fundamental forces of present-day physics all function in the outermost layer (and somewhat in the first inner layer) of the biobodysuit. What are presently called "subtle energies" all function in the three substructural layers of the vacuum. Figure 1 provides a geometrical representation of the multidimensional model.⁽²⁾

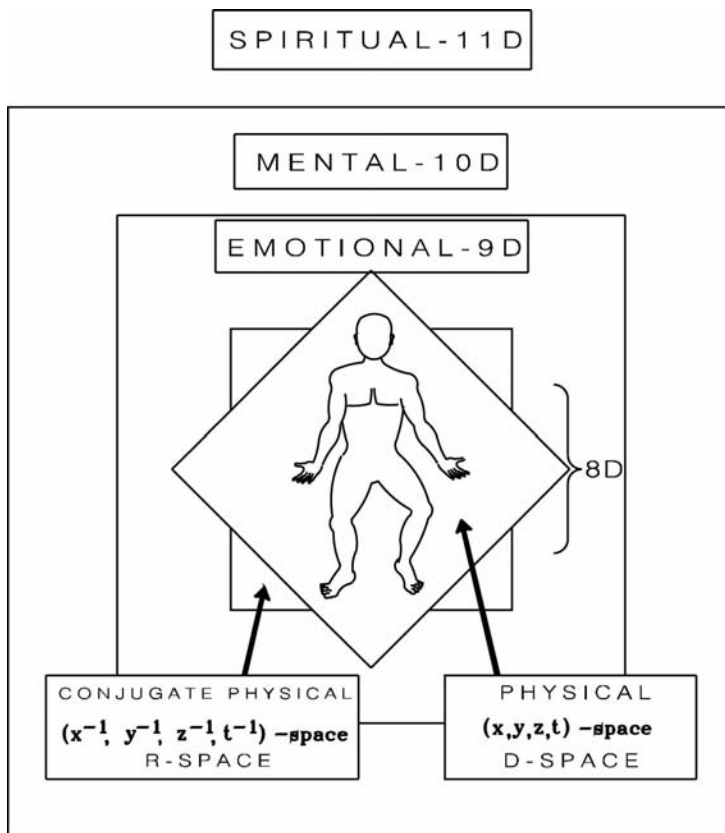


Figure 1. A visualization of dual four-space frames (physical and conjugate physical (etheric or R-space) imbedded in a nine-space (emotion frame) imbedded in a ten-space (mind frame) and this is imbedded in an eleven space (spirit frame).

It is well known that our eyes reliably detect only a very small fraction of the total electromagnetic spectrum and our ears reliably detect only a very small fraction of the total available sound spectrum. Thus, it is perhaps not too surprising to suggest that we generally detect only one band in the total spectrum of reality. For most of us, we are presently only cognitively aware of the outer layer of our biobodysuit-type world. However, some individuals are, today, cognitively aware of these unseen bands in the spectrum of reality.^(2,9) This means that such a capability is a natural part of the multidimensional human genome and that all of us have the latent capability for achieving these expanded levels of cognition. Such an expansion of biobodysuit infrastructure and reliable capabilities always occurs via intentional and diligent practice of self-management techniques (athletics is our most familiar example).

A variety of inner self-management techniques at emotional and mental levels are readily available to us: Yoga, Qigong, HeartMath, Sufism, etc., and all are designed to still the mind so that we can make significant contact with our larger self. In almost all cases, sufficient diligent practice leads to various levels of adeptship and this, naturally, manifests in what we presently call “superphysical” abilities. I prefer to call it actualizing our latent abilities^(2,9) which involves becoming more coherent and more conscious where, to me, consciousness is a concomitant or bi-product of spirit entering dense matter.

At present, we don't cognitively access the vacuum level domains in the reality spectrum for a variety of reasons. Three of these are: (1) we are seldom quiet enough at the outer biobodysuit layer level in order to reliably sense the information signals present at the more subtle levels because they are buried down in the noise, (2) we have not yet developed a sufficiently coherent structural organization at these inner

levels to produce large amplitude vacuum signals that extend well above the noise and (3) our mindsets are such that we tend to believe the four dimensions of space-time are all that exists. Thus, we have built a cognitive jail for ourselves with walls so high and thick that it is almost impossible to tunnel through them and experience the larger reality.

Before closing this section, I wish to address some key points in the biobodysuit metaphor and show how it allows human intention to produce meaningful effects in physical reality.

The Vacuum: Most of the general public hold the idea that the vacuum is not only the absence of physical matter but is also devoid of anything. However, for quantum mechanics and relativity theory to be internally self-consistent, the vacuum level of nature is required to contain an amazingly large inherent energy density. This vacuum energy density is so large that, provided the universe can be treated as “flat” (and present-day astronomers believe it is), the intrinsic energy in mass terms contained within the volume the size of a single hydrogen atom is about one trillion times larger than that contained in all the physical mass of all the planets and all the stars in the entire known cosmos out to a radius of 20 billion light years. This makes the energy stored in physical matter an insignificant whisper compared to that stored in the vacuum and most of the volume interior to all biological molecules can be treated as vacuum. Uncovering the secrets of the vacuum is obviously a very important part of humankind’s future.

Coherence: To illustrate this principle, let us consider the case of a typical, home-use, 60 watt light bulb. It provides some light but not a lot of light. This is primarily because the emitted photons destructively interfere with each other so that most of the bulb’s potential effectiveness is destroyed. However, if we could take the same number of photons emitted by the light bulb per second and orchestrate their emissions to be in phase with each other (perhaps by controlling the vacuum level interior to the filament), then we would have constructive interference between these photons. Now, the energy density at the surface of the light bulb would be thousands to millions of times larger than that emitted by the surface of the sun. This illustrates the unutilized potential present in this light bulb. Perhaps the best example of coherent energy emission from humans comes from studies in Qigong masters.⁽²⁾ They appear to emit fairly intense beams of IR radiation in the ~1 to 4.5 micron range from the palms of their hands. This beam has healing benefits.

Mindset Power: One of the most striking experiments concerning the power of one’s mindset was carried out in the mid-1930s by a psychologist named Slater who designed what might be called “upside down” glasses.⁽²⁾ Subjects were asked to continually wear these glasses that distorted one’s perception so that the wearer saw everything in an inverted configuration. It was very destabilizing for the wearer but, after about two to three weeks (depending on the wearer), there was a sudden “flip” and they saw everything right side up. Then, if the subject permanently removed the glasses at that time, the world was abruptly inverted again for about two to three weeks before the images returned to a normal perspective. Here, we see that the original mindset was so strong concerning the upright orientation of familiar objects that, when the special glasses inverted the optical image, a force developed in the brain seemingly to cause neural dendrites to grow into a configuration that essentially created an inversion mirror in the information path. Once this neural structure was “hardwired”, it took the old mindset several weeks to deconstruct this special signal inversion network. We now call this “neural learning” and we humans do it all the time. It is how we build additional infrastructure into the various layers of our biobodysuits!

The Cause/Effect Process: Via specific intentions, the in-the-biobodysuit aspect of our spirit self produces actions in the infrastructure of the various layers which

ultimately manifest as events in space-time. Specifically, intention from the domain of spirit imprints an initial pattern on the mind domain (see Figure 2). The detailed intralayer connections⁽²⁾ transfer the imprint, in the form of a correlated pattern, to both the magnetic monopole layer and to the emotion domain layer where it activates the important coupling substance, deltrons, in this layer. The deltrons allow coupling between the magnetic monopole substance in the coarsest layer of the vacuum and the electric monopole substance of physical reality. This coupling agent acts much like the “toner” needed in a standard copy machine to produce a clear and legible copy⁽²⁾. When the original intention imprint reaches this outermost layer of the biobodysuit, it activates the built-in mechanisms for action in the surrounding domain - - physical reality.

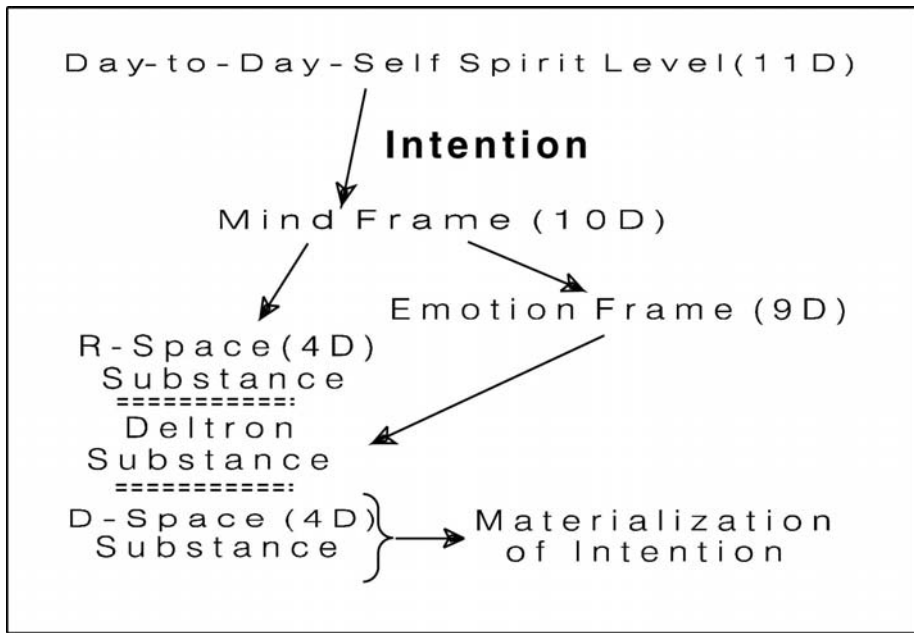


Figure 2. Illustration of one possible process path whereby spirit produces action in the physical domain.

Implications of the New Model for Medicine

The old view of medicine’s relationship to human treatment is much like that of an auto mechanic to a car. First, the car is a finite thing with specific parts that need adjusting or replacing. Second, the mechanic utilizes his learned knowledge, motor skills and basic intelligence to perform these manipulations. Finally, only the outer layer of the biobodysuit had relevance to this auto mechanic model of health care.

The new view of medicine is an integrated multidimensional view wherein the subtle domain levels of the practitioner, the patient and the universe, to some degree, all cooperate in the repair, balancing and transformation process. This means that the attitudes, intentions and personal energy fields along with intellectual knowledge and motor skills plus tools of the practitioner are combinatorially important in the treatment process. It also means that the attitudes, intentions, personal energy fields, etc., of the patient are also critically involved in the treatment process. It also means that the unseen forces of nature may be encouraged to cooperatively participate in the treatment process (via prayer, affirmations, etc.). Finally, it also means that the health care practitioner, the treatment locale, the patient and the unseen forces of nature can all, via sustained and specifically directed intention, increase the level of coherence in their local

selves and environment so that the in-phase power density of the energies involved in the overall cooperative treatment process can be greatly enhanced.

This new view of medicine also sheds strong light on the so-called placebo effect. The prevailing medical view is that nothing real has occurred and that any improvement is only delusional. In Benson's work among patients receiving a variety of treatments they believed in, but for which current medicine finds no physiological basis, the treatments were effective 70% to 90% of the time. However, when the physicians began to doubt whether these treatments really worked, their effectiveness dropped to 30% to 40%.⁽¹⁰⁾ Similar belief-related success was observed in Wolf's work with women who experienced persistent nausea and vomiting during pregnancy.⁽¹¹⁾ Sensors were positioned in their stomachs so that contractions could be recorded. Next, they were given a drug that they were told would cure their nausea. In fact, they were given ipecac. However, because of their belief, the women reversed the laboratory-proven action of the drug, and their measured stomach contractions damped down to negligible values.

From these studies and many more like them, it can be seen that belief fuels expectations and expectations, in turn, marshal intention at both unconscious and often conscious levels to fulfill expectations. The experiments described here tend to both scientifically validate that perspective and also illuminate some of the factors involved. For future medicine, once the presently prevailing mindset is bypassed, a remarkably powerful new technology waits to be unfolded in the service of the healing arts.

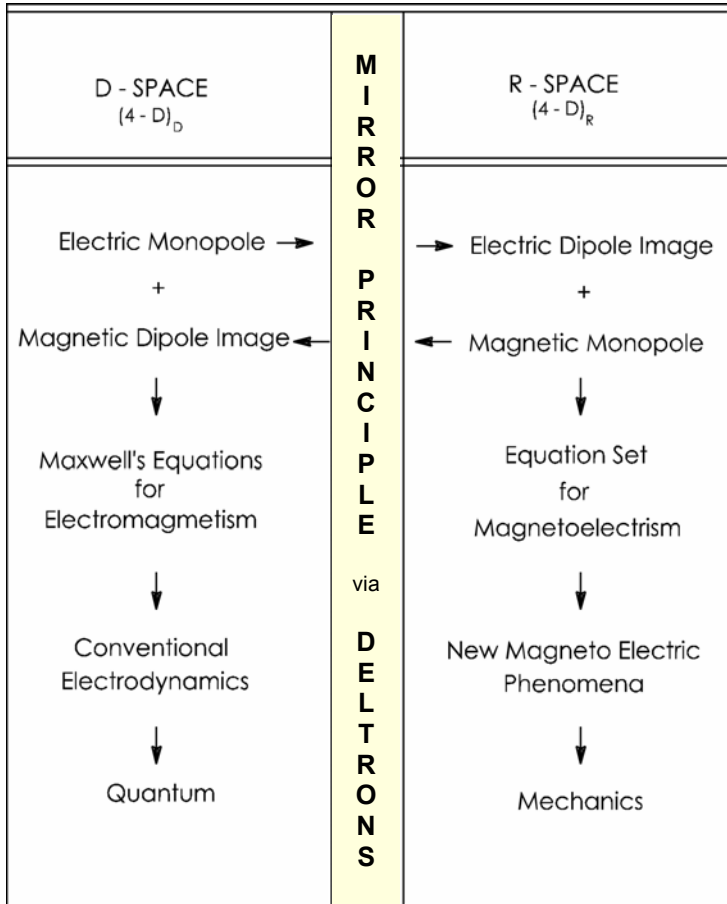


Table 1. Some aspects of the Mirror Principle

Implications of the New Model for Qigong

Because a special type of mathematical mirror relationship exists between D-space and R-space,^(2,12) the monopoles in each domain generate dipole images in the conjugate four space. Provided only weak coupling occurs between the spaces, this leads to conventional electromagnetism (EM) in D-space with the standard Maxwell equations functioning there. This also leads to magnetoelectrism (ME) functioning in R-space, with an analogous set of equations governing the magnetodynamics of that domain.^(2,12) This situation is illustrated in Table 1.

When the level of focused human intention is increased sufficiently to activate a significant concentration of deltrons, a new non-linear phenomenon appears with pure magnetic monopole effects starting to appear in D-space and pure electric monopole effects starting to appear in R-space.^(13,14) As viewed from our normal physical, observational and device measurement perspective, one obtains what I have termed “augmented electromagnetism”.⁽¹³⁾ If the degree of deltron coupling is small, then the actual measurements will show only a small deviation from the normal U(1)-electromagnetic Gauge state, $(\underline{E}_0, \underline{H}_0)$.^(14,15) However, for strong deltron coupling, the observed deviation, $(\underline{\Delta E}, \underline{\Delta H})$, can be very large.⁽¹⁴⁾ Thus, augmented electromagnetism can be characterized in the following way

$$(\underline{E}, \underline{H})_A = (\underline{E}_0, \underline{H}_0)_D + f(c_\delta, I^* \dots) \quad (3a)$$

It is this second term that is the manifestation of Qi (chi) in physical reality.

Just as the standard electromagnetic spectrum encompasses a wide range of individually labeled moieties like cosmic rays, gamma-rays, x-rays, light, microwaves, radio waves, elf waves, etc., one must expect the magnetoelectric spectrum to be likewise rich in individual moieties that interact directly within the R-space layer of the biobodysuit metaphor. The many forms of Qi that have been mentioned and discussed at some length in this book are all thought to have their origin in the magnetoelectric spectrum.

The next higher major level of symmetry in nature than the U(1) Gauge symmetry level, is the SU(2) Gauge level. At this level, electric and magnetic interactions involve both electric and magnetic monopole charges and currents. Barrett⁽¹⁵⁾ has shown us the mathematical distinctions between these two important Gauge symmetry levels of nature’s expression. In this author’s multidimensional model⁽²⁾, a quality in D-space is connected to the conjugate quality in R-space via a deltron-empowered Fourier transform.^(2,14) Thus, even if the minimally coupled D-space measurement is mathematically real, its equilibrium R-space counterpart may be mathematically

complex. However, this deltron-empowered R-space function has a modulus, \hat{I}_R , which is both mathematically real and of positive magnitude so it is measurable by both our physical senses and by our instrumentation. Because of this, Equation 3a is more properly replaced by⁽¹⁴⁾

$$(\underline{E}, \underline{H})_A = (\underline{E}_0, \underline{H}_0)_D + \hat{I}_R(\underline{r}, \underline{k}, c_\delta, I^*, \dots) \quad (3b)$$

Since the Qigong experiments of this book all manifest observable and measurable effects in the domain of our cognitive reality, they are all mathematically

embodied within the functional expression of \hat{I}_R in Equation 3b, where \hat{I}_R is given in the standard way by

$$\hat{I}_R = \left\{ \hat{F}T_R(\underline{k}) \hat{F}T_R^*(\underline{k}) \right\}^{1/2} \quad (3c)$$

and $\hat{F}T(\underline{k})$ is the deltron-empowered Fourier transform of the particular D-space quality under consideration (e.g. $\underline{E}, \underline{H}$, etc.) as a function of the R-space coordinate, \underline{k} . Thus, although our future detailed understanding of the physics behind Qigong will involve our full exploration of $\hat{F}T(\underline{k})$, it is only \hat{I}_R that is currently measurable and this should be the meaningful focus of our attention. The careful analysis of this book's contents will help us along our future path that will allow us to experimentally discriminate, via inanimate instruments, one form of Qi from another.

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