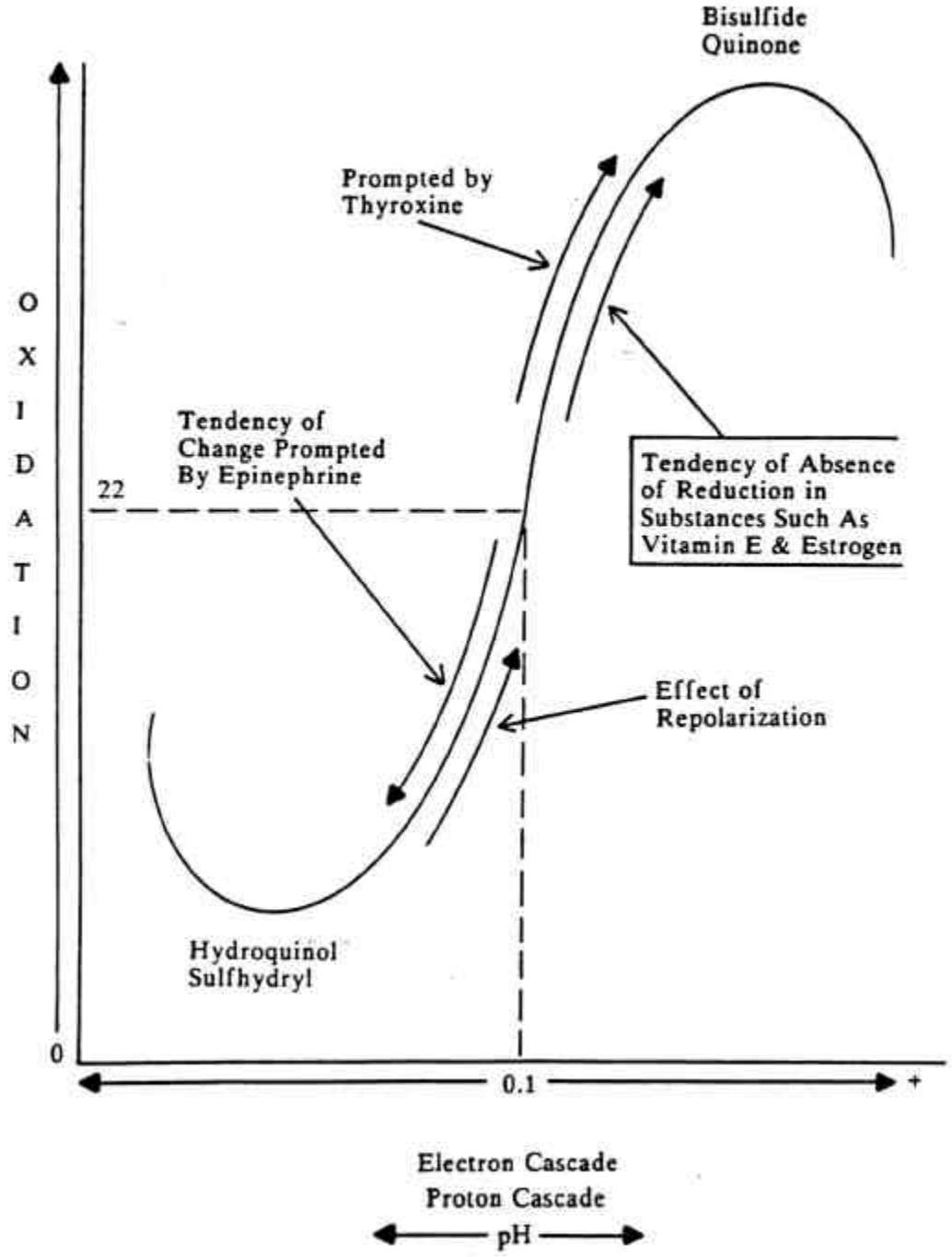
Chapter 6

VIRTUAL PHOTONS

ELECTRON POISING CURVE



Chapter 6

VIRTUAL PHOTONS

Modern physics has encountered many particles other than electrons, protons and neutrons. Modern quantum physicists have come up with some bizarre ideas of the nature of subatomic reality.

There are many radically different ideas of the nature of subatomic reality, but all seem to parallel the idea that the human mind and the human intervention are a deep part of the construct of any type of physics. Isaacs pointed out that the human being might be the solution for quantum physics, and the human brain's potential of understanding the situation might be because of its solution of the events.

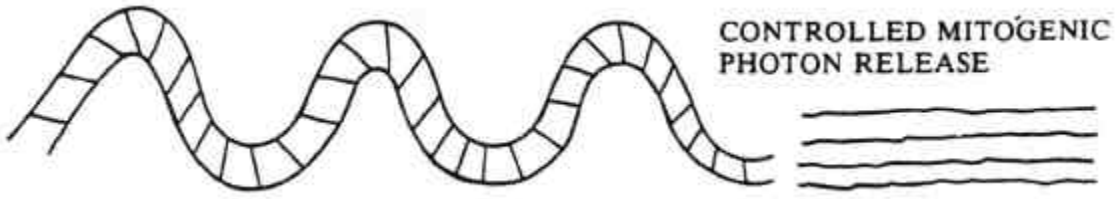
These subatomic particles do not just sit around being subatomic particles; they are very active, with electrons releasing virtual photons and then reabsorbing virtual photons; protons releasing pions and neuons, and neutrons releasing the same. All of these virtual paricles comming in and out of subspace. This constant release and absorption of what are known as *virtual particles* is happening at very great speeds within all matter. So a traveling electron, as it releases and reabsorbs its virtual photons, forms around it a virtual photon cloud as part of its' quasi particle nature. This allows for one electron to repel another, because of the virtual photon cloud. These virtual photons also account for the *attraction* between electrons and protons, so that the electrostatic force is contained, and happens because of virtual photons. This work is the basis of QED theory, which appears to be the King of the Hill of physics theories today.

Many researchers have used the virtual photon to explain the electromagnetic forces. Several have speculated that all forces might be explained through some type of photon. The known forces are: the weak force of the nucleus, strong force of the nucleus, gravitation, and electromagnetic force. The existence of these virtual photons cannot be doubted any more by modern physicists. This has become a tenet of modern-day physics. $E^2 = (MASS)^2 (C)^4 + (MOMENTUM)^2 (C)^2$.

Virtual photons differ from actual photons in that the rest mass of a virtual photon is not zero; only zero-rest-mass photons cannot escape and become actual photons. Real photons have energy equal to momentum times velocity of light (C). Virtual photons are photons whose energy is not equal to momentum times C.

REAL	VIRTUAL
	Like Variance of Light
E = (Momentum) (c) Speed of Light	E > (Momentum) (c) \ Time
	---------- \
	E > (Momentum) (c) \ Space

In the second Feynman perturbation theory energy momentum can be conserved, because virtual photons do not have physical mass. As an electron is proceeding through its path, and releases a virtual photon; first there is an electron, then an electron plus a proton, then an electron again as the electron reabsorbs the proton. This situation is a violation of the conservation law of mass and energy. The conservation law of mass and energy states that you can't get something for nothing, or that energy cannot be created or destroyed; yet, the electron has created a photon out of seemingly nothing. This violation of the first law of thermodynamics (energy cannot be created or destroyed) can be violated beneath the Heisenberg uncertainty principle, meaning that in a small event, such as an electron, if the time is very short (10^{-15} seconds, for example), then the laws of mass and energy conservation can be violated due to the Heisenberg uncertainty principle. If this virtual photon from one electron is absorbed by another electron, and therefore, `his' photon is then absorbed by another, long-range forces can interact, as informational photons can account and be transmitted through large quantic systems. Such a system initiates with DNA.



In an effective bath of photons, the mix of virtual photons that escape becomes greater. Such a bath is supplied by the infrared photon in temperatures from 20E C to 40E C. This room temperature bath will supply the photon bath needed to kick the virtual photons free. Thus these free photons will produce a photon field around any substance (see Stefan Boltzmann law in *Bio-Quantum Matrix*).

Our photon field work complies to all of the Feynman rules.

RULES FOR CONSTRUCTION
AND INTERPRETATION OF FEYNMAN DIAGRAM:

1. Energy and momentum are conserved at a vertex.

2. Electric charge is conserved.

3. Solid straight lines with arrows pointing in the direction of increasing time are used to represent fermions (any particle which obeys the fermi-dirac statistics, particles with half odd integers spin) propagating forward in time. Reverse arrows represent anti-fermions going forward in time.

4. Broken or wavy lines represent bosons (which are particles that obey Bose-Einstein statistics and have an integer spin).

5. Lines having one end at the boundary of the diagram represent free particles approaching or leaving a reaction.

6. Lines that join vertices normally represent virtual photons.

7. The time ordering of the vertices connected by an internal line is not determined, so that two diagrams having an internal line apparently oriented differently with respect to time are not different diagrams.

8. Every particle at the boundary should be labeled with a momentum. However, we do not include momentum labels unless necessary.

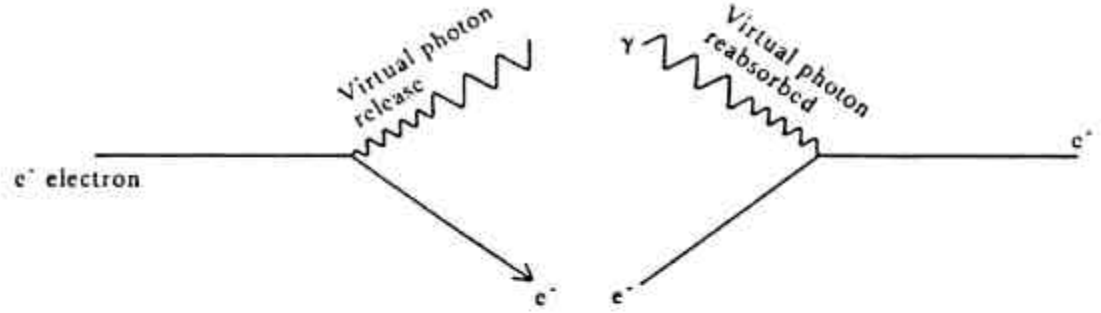
9. Time increases from left to right.

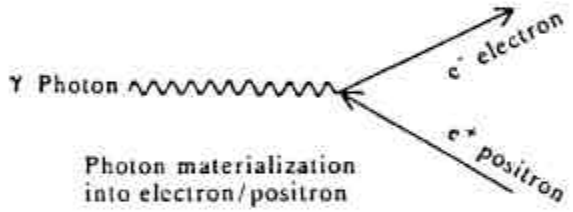
REAL PARTICLE

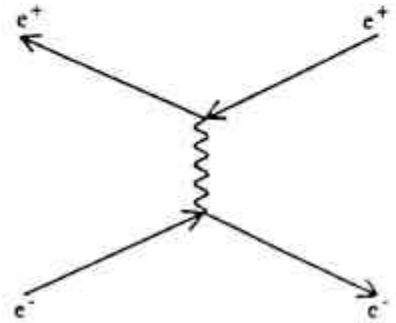
$$E = + \quad (\text{Mass})^2(C)^4 + (\text{Momentum})^2 + (c)^2$$

VIRTUAL

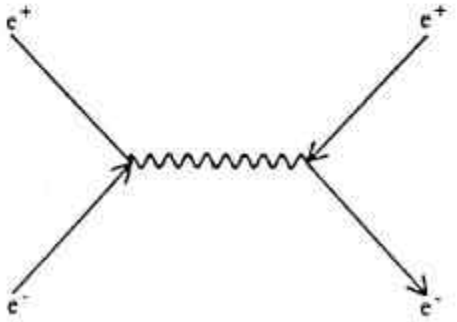
$$E + \quad (\text{Mass})^2(C)^4 + (\text{Momentum})^2 + (c)^2$$



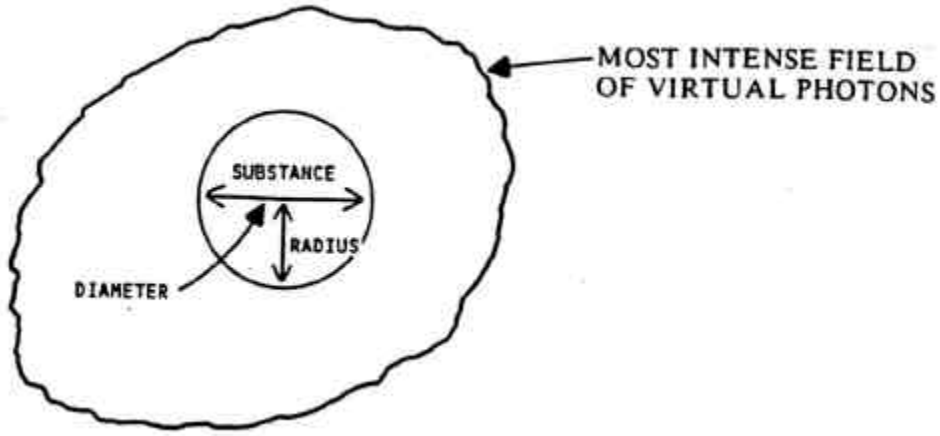




SINGLE-PHOTON EXCHANGE



ANNIHILATION DIAGRAM



Using a photon multiplier and a photon counter, we can find that at room temperature of approximately 30E C there could be as many as 15,000 or more free photons in the infrared spectrum per cubic centimeter. We had to set the photon counter at a base minimum for the temperature. Then in doing the experiments we used the counter to count the excess photons that were supplied by living tissue. Our experiments included beans, plants, seeds, tissue cultures, human participants, glandulars, and even homeopathics; all of which are found to put out a photon field of *excess* photons beyond that of the virtual photon bath supplied by the temperature. This photon field will be unique for any substance, as the field will reflect the subtle energy states of the electrons in the substance. This explains the medication testing phenomena in electro-acupuncture as in Kenyon's literature. A review of Kenyon's material is suggested at this time.

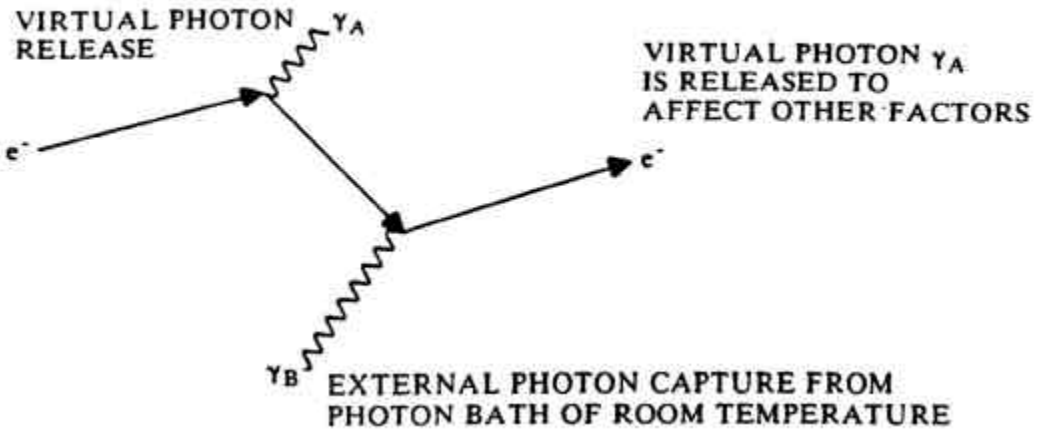
These free photons could be absorbed and radiated by a close antenna, just as EMR photons are absorbed by your TV or radio antennae. The sophistication is in the receiver, not the antennae. Here the receiver is human biology. Life reacts to this free virtual photon field by making electrical responses of resistance and potential changes.

The reason why we would suppose the need for a close antenna is because of the difference in wavelength. Thus the length of span that such a photon can be transmitted and then absorbed can be quite large. We find that the extremely long wavelength of television and radio allows for long transmission. Short wave broadcast has much longer types of transmission. We find that transmission in the area of infrared (or the virtual photons of life that are infrared and visible) and a touch of the UV, running from 10^{12} Hz through 10^{16} Hz might have very *short* distances, and thereby need a close antenna, such as by resting the appropriate object on an antenna.

In the case of our medication testing phenomenon, this field might only be detectable at ranges of only a few feet to possibly even a few inches. It is this experimenter's opinion that this field extends at high intensity, no more than three eighths of an inch for three eighths of an inch of mass, in a circular field. Smaller drops have been found to have smaller fields.

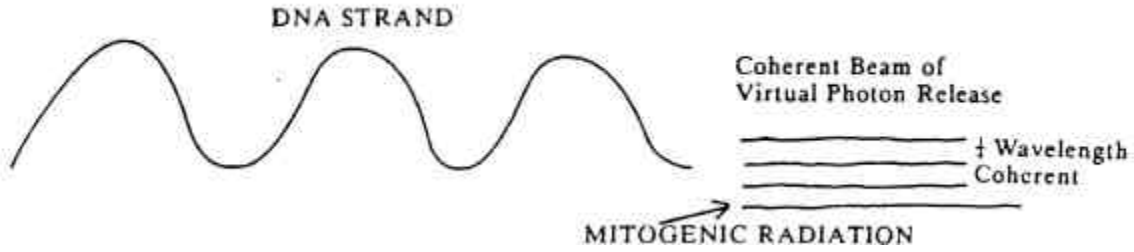
This experimenter has found that the field extends equal to the distance of the diameter of the drop used. Thus if we have a one-inch diameter bottle, the field would extend for an inch around. If we have a one-millimeter circular bottle, it would extend one millimeter around. This is an experiential observation, which has been documented with some of the research done by this experimenter.

FEYNMAN DIAGRAM



As we have said that the uncertainty of position and momentum is the Heisenberg uncertainty principle, there also is an uncertainty about time and energy. The more we know about the time of an event, the less we know of its energy; the more we know of the energy, the less we know of the time.

Thus the Heisenberg uncertainty principle describes another set of conjugate variables, which are important for our knowledge of biology.



It has been found that the electromagnetic and electrostatic forces are dependent on the mutual change of virtual photons. Physicists will definitely say that the electromagnetic force is mediated by these photons. In fact, the electromagnetic force is made up of photons.

In 1935 Hideki Yukawa discovered the virtual particles of protons. This led to the discovery and quantic explanation of the strong force within the nucleus; the strongest force known in the universe, which binds together protons within the nucleus, particles of like charge, which are pushed within 10^{-13} cm of each other. The strong force overcomes the weak repulsion force, and at one hundred times the force, sucks the proton into the other proton to form the nucleus. Even protons are emitting their virtual particles; yet, one law of physics is that the stronger the force, the shorter its action. Gravity, which is a weak force, has long-range effects and holds together solar systems, galaxies and universes; whereas the strong force of the nucleus exists at 10^{-13} meters. The interactions happening in this strong force are so fast that they happen at 10^{-23} seconds, which many physicists have speculated to be the quanta of time; the amount of time that it takes light to pass by a helium atom. By quanta of time it is speculated that no smaller unit of time could exist.

PREVIOUSLY SPECULATED: QUANTA OF TIME = 10^{-23}
QUANTA OF DISTANCE = 10^{-23} meters
AVAGADROS NUMBER = 6.02 X 10^{23}

In *Quantum Biophysics* and *Quantum Vibrational Medicine* we set new standards.

The four forces of the universe known to date are the strong nuclear force, the electromagnetic force, the weak force, and gravity. Modern physicists have tried to explain all these forces through the dynamics of the virtual photon or other virtual particles.

Perhaps with this writing a new force can be added. We have seen that biology exists because of its indeterminacy. This indeterminacy can be influenced. This influence on indeterminacy could truly be the life force principle that biology, medicine and religion have sought for ages. Could the simple vion be a sender and receiver of this force? Could this new force be particulate? Could there be vionic particulates? Let's look at this vion force more closely. We see that this shaping of indeterminacy by and for biology is independent of time and space. It is not voltage- or amperage-dependent but wattage-dependent. It can influence indeterminacy but seldom control it. In Chapter 9 we can see more clearly why this force influences the other forces but is not of them. This vionic force is contained in the uncertainty principle. Possibly we can speculate about the dream of physicists in discovering the unified field as possible from this vionic force. But now let us return to the photon.

YUKAWA'S HYPOTHESIS

A boson of Energy E, Momentum P and Mass M

$$E^2 - P_1\, Pc^2 = m^2c^4$$

Replace: $E = + ih\, 2/MJ$ and $P = -ih\ \check{}$

Make equation and operator of wavefunction (

$$-h^2\ M^2(\over MT^2 + h^2c^{22}(= m^2\check{}^4($$

If M = O

$$E = -\ \mathrm{Grad}\ (\ -\ \frac{MA}{MT}$$

Grad is the electrofield strenght

(is a scalar electrostatic potential

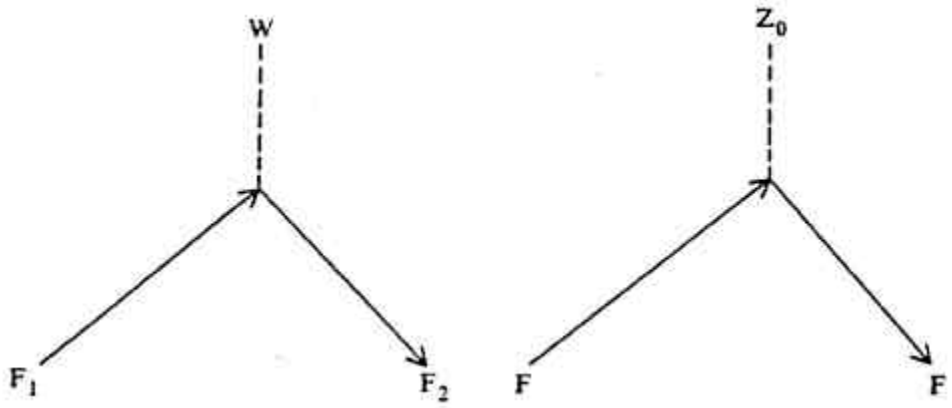
A is a quantity of four vector transforms of gauge invariance and relativistic compliance

If M O, the static equation is:

$$(\ =\ \frac{mc\ ^2(}{h}$$ Solution

$$(\ =\ \frac{1}{R}\ \exp\ \frac{-R}{a}\qquad a = \frac{h}{mc} = \mathrm{Range}$$

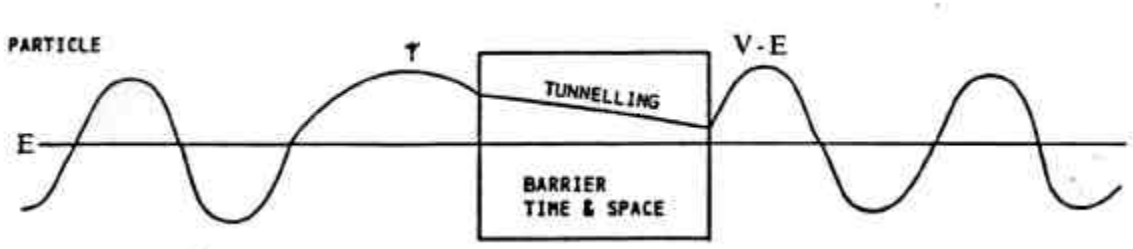
The bosonic potential of a point nucleon source will vary with distance from source.



WEAK INTERACTION FORCE FERMION YIELDS BOSON
EFFECT OF THE WEAK FORCE OF THE NUCLEUS.

Feynman, who won the Nobel Prize for analyzing the virtual photon, describes the difference between the virtual and the real state of photons by "what looks like a real process from one point of view may appear as a virtual process occurring over a more extended time. For example, if we wish to study a given real process, such as the scattering of light, we can, if we wish, include in principle the source, scatterer, and eventual absorber of the scattered light in our analysis. We may imagine that no photon is present initially, and that the source then emits light. The light is then scattered and eventually absorbed. From this point of view the process is virtual; that is, we start with no photons and end up with none. Thus we can analyze the process by means of our formulas for real process by attempting to break the analysis into parts corresponding to emission, scattering, and absorption."

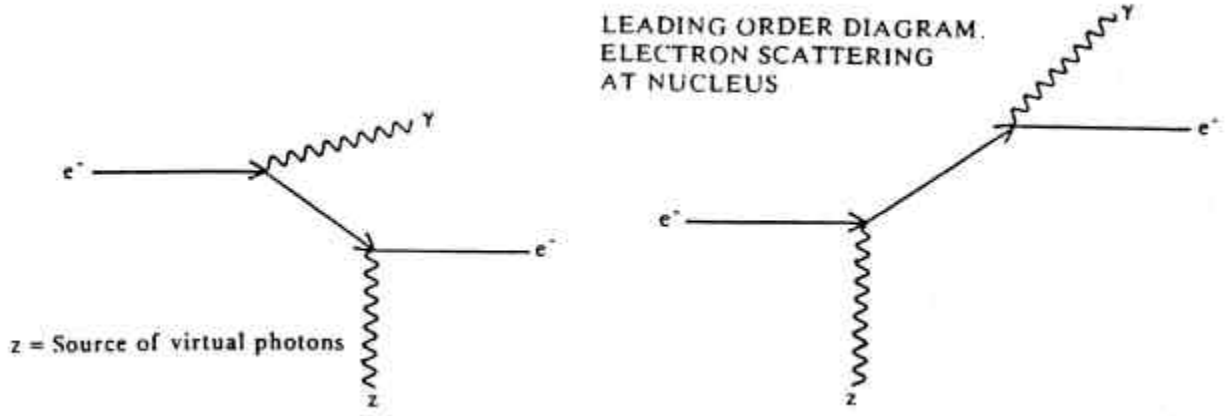
In other words, we do not seem to find any real difference between virtual and real photons. If virtual photons are made with no rest mass, then these virtual photons could have the range as other electromagnetic forces, and that is infinity. Thus the only real difference between a real and a virtual photon is that the real photon does not violate the conservation law of mass and energy, where a virtual photon, when created, avoids the law, via the Heisenberg uncertainty principle. But once created, if a virtual photon has no rest mass, it will have the appearance, feel and range of a real photon; thus infinity. So the human being, a virtual photon producer and absorber, is capable of reaching out to the stars and other planets via this virtual photon production. The effect reaches in and out of subspace with the effect of polymorphic resonance.



E = TOTAL ENERGY V = POTENTIAL

The detection of particular body-made photons has become another paramount science in the utilization of magnetic resonance imagery (MRI). In MRI, when the body is exposed to a large magnetic field, the protons of the hydrogen inside the water molecule, the two protons next to the oxygen, will move with their magnetic moment, to parallel the magnetic field. When the magnetic field is removed these protons will jump back to their original state, and in so doing, will release a photon. The photon that is released is vibrating at 64 megahertz, and has a wavelength of approximately 3.8 meters. The magnetic resonance machines will then intake this photon and, through sophisticated computerized processes, be able to describe the amount of water and the location of the water via the triangulation theory used within the computerized software.

Other molecules that are able to be detected by MRI include some fats. In the hydroxyl part of fats there is a proton of hydrogen that can be maneuvered. The protons bound to the carbon via hydrogen carbon bonds constitute such a firm bonding that they do not respond to magnetic field techniques.



Sophistication with MRI and the billions of dollars spent on research and technology show how photon detection and utilization in the body can be developed to a high degree, and this information can be utilized to tell us about the body internal.

This radical development of photon utilization, with its massive amounts of research and technology, will open the door for an understanding of mitogenic radiation, and how photons that come off the body *can* be detected, utilized and analyzed. In mitogenic radiation we do not need to have any type of magnetic field or any other inductor for the body; these virtual photons of mitogenic radiation are coming off the body on their own all the time. The reason that this phenomenon has escaped modern science is because it has been confused; that infrared radiation coming from the body is just a useless byproduct of the temperature of metabolic forces. But now we will know, in this document, that this information coming through the infrared, visible and ultraviolet has meaningful ramifications for biology.

The bath of infrared photons required for life provides the backdrop for biology to exist.

This backdrop in the bath of infrared radiation has masked the analysis of the mitogenic radiation. Only with 1992 technology are we able to actually interpret these photons in any meaningful type of way. Now we can cut through the mask and get to the heart of the mitogenic problem.

Sophisticated photo-multipliers and other photon-detection equipment are used to isolate different problems in the body via their frequency and the photon distribution. So quickly and easily, doctors with equipment in the field are able to isolate and detect various infective cases and other metabolic disorders. Then these doctors are able to treat these conditions via natural homeopathic and naturopathic techniques, because the true answer for medicine (as we detect our photons and electrons and move into an energetic concept) is that we need an energetic intervention, such as homeopathy, acupuncture, chiropractic, or another energetic intervention that allow the doctor to intervene on the body energetic.

Progress in energetic medicine occurs slowly, largely because of the inability of the sinthetic chemical companies to accept these theories and to fund them. These energetic medicine techniques, through analysis of the photons, electrons, protons, wave forms, frequencies, and other transducing elements will take medicine far beyond its current state of technology and allow for development of a true biology, and thus, a true medicine.

SUMMARY

1. SUBATOMIC PARTICLES TRANSMIT AND RECEIVE VIRTUAL PHOTONS.

2. IN A PHOTON BATH SUPPLIED BY TEMPERATURES OF 0E C TO 40E C CAN CHANGE PLACES WITH THESE VIRTUAL PHOTONS.

3. THIS ACCOUNTS FOR PART OF THE MEDICATION TESTING PHENOMENON.

4. CELLS CAN RECEIVE AND REACT TO THESE PHOTONS.

5. MRI UNITS USE BIO-PHOTON RECEPTORS.

6. NEW BIO-PHOTON RECEPTORS CAN BE DEVELOPED TO ANALYZE NATURAL PHENOMENA. VOLTAMMETRIC OR TRIVECTOR READINGS WILL REFLECT THE BIOPHOTON EXCHANGE SO AS TO LET US VALIDATE ELECTRODIAGNOSTICS.

7. THE CHALLENGE FOR MEDICINE IS TO ACCEPT ITS MISTAKE (SINTHETIC PHARMACOLOGY) AND EMBRACE THE NEW PHYSICS OF QUANTUM BIOLOGY.

8. THIS SUBSPACE EFFECT IS NON REPRODUCABLE, NON REPEATABLE, NON LINEAR, SUBTLE EFFECTING SHIFTS IN PROBABILITY, OF CONSCIOUSNESS, INTENSIFIED WITH DIRECTED THOUGHT, INTENSIFIED WITH POSITIVE THOUGHT, AND LEARNABLE.