

THE EVOLUTION OF Q AND THE HARMONIC FRAMES OF REFERENCE

An excerpt from



THE TOTALITY OF GOD
AND THE IZUNOME CROSS

Unlocking the Secret to the Riddle of the Ages

Al Leone

© 2002

Author's Note: Key to the System of Quadrality, my logical construct governing the origin of the Universe and its continued existence, is the Theory of Harmonic Creation, the understanding that this occurs according to the principles underlying the creation of harmonics. Described as the perfected merging of Music and Mathematics, several stand-alone articles support that contention. Others serve to illustrate the symbolic structure of Harmonic Creation. But for the theory to manifest into tangibility via the transformation of energy into matter, required the acquisition and manipulation of physical properties. This was accounted for by the Evolution of Q – Unity as primal substance – which would then evolve via Duality as Wave and Particle and do so in the context of harmonic frames of reference with a relationship to wave theory, resonance, and electric circuits. Thus, the following excerpt, though perhaps confusing of context, merits consideration due to its foundational importance. Complementing the likewise extensive article "Theory of Harmonic Creation," it's best read following it. Further study on the subject can be found on pp. 452-458, where Q was introduced, and pp. 501-507, where the evolution of Q is depicted philosophically.

A short while ago, I recalled that I said in *A SPIRITUAL APPENDIX*, *you won't find what you're not looking for because your Mind's eye won't see it*. In other words, our preconceptions often blind us to the truth. No one is free from occasionally finding themselves falling into this trap, including myself. I think that is what may be happening in the present scientific search for truth. In an effort to define everything as a closed system in which conservation laws work, scientists may be overlooking what seems obvious to someone unbound by such restrictions.

As a result, Science is constantly caught up in its own paradox, trying to fit a square peg into a round hole by carving away at the peg rather than looking for a square hole. To see what I mean, realize that Science has built up its body of knowledge on top of what already exists. And while theories have been reformulated, they only replaced what preexisted if the prior theory was proven wrong. The Earth being at the center of the Universe is a classic example. Still, all these theories were based on observations of tangible and experimentally controllable phenomena. Thus, the *Laws of Conservation* were formed around systems that were considered closed. However, as Science in the last century achieved greater strides reexamining infinity both in its macrocosmic and its microcosmic sense, they began to grasp the existence of things that would adhere to the *Laws of Conservation* only if the systems were reconstructed and the laws were redefined. Out of this grew *Relativity* and its new, macroscopically infinite space-time continuum, and *Quantum Theory* and its new, microscopically infinite Principle of Uncertainty. In either case, the system under consideration was being expanded to include these new ideas. And with each new discovery came new observations that didn't fit into the old model. So, even newer models were created and the boundaries of the supposedly "closed" infinite system grew. You don't have to be Sherlock Holmes to question how hundreds-of-years-old Conservation Laws designed for a finite-closed system need apply for one that is obviously approaching what I've referred to as infinite-open.

Case in point: *Quantum Theory's* microscopic infinity. Once scientists realized that the atom wasn't the smallest particle of existence, they began to enter a realm in which a level of uncertainty had to be considered. Atomic weights, being a combination of protons and neutrons in the nucleus, could be precisely established.

But the behavior of electrons encircling them could only be considered as probable. Still, at least their existence was considered a given. Then, as scientists learned even smaller particles existed, they began to enter a realm where even existence was only a probability. In each instance, new mathematical equations were derived to account for them. And under extreme laboratory conditions, these particles would occasionally turn up long enough to prove the theory that they existed at all. And again, as newer discoveries were made, even newer theories were created to take scientists even further into microscopic infinity. The just mentioned *Superstring Theory* is one of the most popular of the recent particle theories, with staggering equations to describe entities so small and so infinitely permeable as to defy the classification of particle. And wave theories, like the upcoming *Inerton Field*, have equations that seem more real than the intangible waves they describe. Nonetheless, all these equations are attempts to offer tangible explanations for things we can't, and probably never will see, yet somehow are responsible for all the things we can.

The same is happening for macroscopic infinity. The recent discovery of Dark Energy, with its repulsive properties, is leading to a new branch of theoretical physics called *Quintessence*. (I must mention that, like the information on Russell and Keely, this came to me near the end of the entire writing process. These discoveries in fact motivated me to add the previous comments, as well as these last few pages of text, after I had already begun to distribute copies of the *First Digital Edition* of this book.) *Quintessence* is a word borrowed from the ancient Greeks, who used it to describe the mysterious fifth element – or Aether – which held the moon and stars in place. The Dark Energy that scientists now acknowledge is equally mysterious. Not only does it appear to make up 2/3 of the Universe, but its existence could only have turned on in the present epoch in the history of the Universe. Again, scientists are constructing models and manipulating equations to find the best way to mathematically describe this phenomenon. Each new theory attempts to reconcile flaws in the previous. This analysis is from the most recent I was able to uncover:

Increasing evidence suggests that most of the energy density of the universe consists of a dark energy component with negative pressure, a “cosmological constant” that causes the cosmic expansion to accelerate. In this paper, we address the puzzle of why this component comes to dominate the universe only recently rather than at some much earlier epoch. We present a class of theories based on an evolving scalar field where the explanation is based entirely on internal dynamical properties of the solutions. In the theories we consider, the dynamics causes the scalar field to lock automatically into a negative pressure state at the onset of matter-domination such that the present epoch is the earliest possible time, consistent with nucleosynthesis restrictions, when it can start to dominate. . . .

. . . Effectively, the scalar field changes its speed of evolution in dynamic response to changes in the background equation-of-state. . . .

The distinctive feature of k-essence models is that tracking of the background energy density can only occur in the radiation epoch. At the matter-radiation equality, a sharp transition of k-essence from positive to negative pressure is automatically triggered by dynamics. . . . The resolution of the cosmic coincidence problem boils down to the fact that we live at the “right time” after matter-radiation equality. . . .

Summary. In this paper, we have presented a scenario in which cosmic acceleration occurs late in the history of the universe due to an inevitable sequence of events caused by attractor dynamics. . . .

In future work we . . . also explore interesting variations of the dynamical scenario with different kinds of attractors, including some which can lead to different long-term future outcomes, such as a return to a pressureless, unaccelerated expansion in the long-term future.

[C. Armendariz-Picon, V. Mukhanov and Paul J. Steinhardt, "A Dynamical Solution to the Problem of a Small Cosmological Constant and Late-time Cosmic Acceleration." arXiv:astro-ph/0004134, v1, Apr. 11, 2000. <http://xxx.lanl.gov/pdf/astro-ph/0004134>]

So, now there aren't just particles in the quantum world that come and go, whose existence can only be considered a probability until they actually appear, and whose very presence may only have been needed at a particular moment in the Universe's evolution. There is also an all-pervading energy that has miraculously turned on exactly when the Universe needed it to do so. And equations are already being written in case there comes a time when this energy is no longer needed and it just as miraculously disappears!

Of course, I'm not putting down any of these attempts to find just the right set of equations to account for these phenomena. The pursuit of scientific inquiry and advancement is one of the oldest and noblest of the world's professions. And the scientific method is part and parcel to it. Moreover, as I've often said, if something occurs in the Physical Realm, it has to have a physical explanation. But, recently I also said that many of those answers seem to lie in Intangibility. Isn't that exactly what is happening in all these scenarios?

Still, the most interesting thing for me is that all these things can be understood in terms of the **Five Laws of Being and Existence** I've described. Particles come and go out of nowhere when and where needed, and fields change their speed of evolution in dynamic response to changes in state. Sure sounds like the *Law of Universal Use* and *Dynamic Stability* to me. And I wrote about these Laws concerning the energetic nature of the Spiritual and Physical Realms based upon the understanding I had arrived at while pondering the symbolism of the ***Izunome Cross***. All these other theories, *Sympathetic Vibratory Physics*, the *Genero-Radiative Concept*, *Quintessence*, *Dark Energy and Matter*, *Superstring Theory*, the *Inerton Field*, etc., were later shown to me so I would know the truth in what I had intuited and have the substantiation to offer to you on its behalf.

There is so much spirituality in Science once you get beyond the equations and see it symbolically for what it is. We began our search by establishing a symbolic parallel between *Quantum Theory* and *Taoism*. Now, *Superstring Theory* is a maze of complicated equations designed to describe the behavior of vibrating membranes 100 billion-billion times smaller than a proton. It claims the fundamental forces and various particles found in nature are nothing more than different modes of vibrating strings. Gravity, for example, is caused by the lowest vibratory mode of a circular string. Higher frequencies and different interactions of superstrings create different forms of matter and energy. [<http://www.msnbc.com/news/201650.asp>] It should be obvious how all this could be a factor in the *Principle of Harmonic Alignment*. But the symbolism in it is even more astounding. The theory seems to boil down to five types of interactions between just two different states of strings – open and closed!

That's so spiritual, it makes me wonder why someone hasn't tried to derive a set of equations for Karma! After all, consider how a scientist might describe it: *A particle action takes place having a certain energetic vibration, which then causes either an alignment or disturbance in an all-pervading field of energy. That field will*

correspondingly then produce either an alignment or disturbance in the particle acting upon it. I can almost smell the mental gears turning. Of course, the greater question may be, why bother? I mean, for millennia Humankind has known that Karma exists, and how it affects us. Do we really need an equation to prove it? Nonetheless, it can still be understood in the context of the *Principle of Harmonic Alignment*. That's why I said that at the top of the energetic pyramid would be the **Five Laws of Being and Existence** herein discussed. Once you grasp them and how to make your life work in their context, at least for you, *Paradise on Earth* will have become a reality. And in accord with the spiritual *Prototype Principle* or the physical *Hundred Monkey Theory* – depending on how you see it – as in the *self*, so can it follow in the *collective*.

Now, I've spoken a great deal on the vibrational properties of *resonance* in oscillating systems and their application in the context of creation, and have covered parallels from mechanical and electrical systems. And I mentioned that the Principles of Vibration and Force underlie all such systems. However, I also included chemical systems with the other two in that reference. But, to the best of my knowledge, *resonance* is not a macroscopic property of chemical systems. And I earlier alluded to this when discussing the non-oscillatory nature of Heat versus Light and Sound in the *Triunity of Tangible Creation*. Nonetheless, chemical systems are equally important in modeling creation, and I've previously done so both in the generation of power through the chemical reactions in batteries, as well as in those involved in the production of the heat needed to power creation. And it is most crucial to understand the importance of chemical systems in establishing the very medium of creation. It's been likened to a boiling caldron of quantum plasma, which I said could be modeled as a sea of subatomic ions. It is this ion-like broth from which tangible matter manifested out of Intangibility. So, before we move on, it is necessary to cover how the phenomenon of ionization works. The parallels to points already made in our theory of creation should be obvious. When a molecule of gas loses electrons due to some stress conditions, it becomes a positively charged ion. The intense electric field that's near a sharp point of a charged conductor will set these charged particles, as well as free electrons, in motion. Electrons and protons will move in opposite directions, violently colliding with other gas molecules and releasing more charged particles. In this way, air may be quickly ionized when subjected to sufficient electric stress. When the air between two charged surfaces becomes ionized, a spark discharge occurs. There is a rush of free electrons across the ionized gap, discharging the surfaces and producing *Light, Sound, and Heat*. Atmospheric lightning is an example of a spark discharge of enormous quantity in the Physical Realm of today. At Zero Moment it was, to an extent that staggers the imagination, the Big Bang.

If you think about it, it is the manifestation of the third aspect of the *Triunity of Tangible Creation* – Heat – that truly differentiates the Physical Realm from the Spiritual Realm. I mean, the Principles of Light, Sound and Heat all existed in the Spiritual Realm. The waves of Light and Sound were certainly responsible for the intangible oscillations that linked the realms together and transferred the energy through *resonance*. And the spirals of Heat, inherent in the *Rules and Structure* as modeled in the *Quadralitic Cube*, enabled Spiritual and Physical to expand and contract. But, the temperature aspect of heat only came into existence at the Big Bang. As mentioned before, the Big Bang was the instant that the tangible Means manifested within the tangibly created Extremes – in this case, Absolute Cold in actuality and Absolute Heat in potential. Absolute Cold was essential to build up the infinite accumulation of energy prior to the Big Bang, because only in Absolute Cold

can you have zero resistance. Today, the same phenomenon can be observed as *superconductivity* – the total disappearance of electrical resistance in a wire or circuit. Superconductivity only appears in a specific material below a critical temperature, initially just a few degrees above *absolute zero*, the temperature at which substances possess no thermal energy; and, a strong magnetic field can destroy it. Thus, once the potential field became actual during the *Transition Phase of the Physical Realm*, superconductivity at the scale required for the Big Bang disappeared; resistance increases rapidly with rise in temperature. In exchange, the Universe received the ability to manifest Absolute Heat at the scale required for its continued procreation. Nothing tangible could have formed otherwise. And, since the energy buildup took place before a tangible electromagnetic field existed, you can say that the tangible condition of Absolute Darkness and Absolute Silence likewise preexisted the Big Bang, with Absolute Light and Sound then tangibly manifesting.

The manifestation of heat, unlike light or sound, truly established the Universe as one of entropic change. As we earlier learned, *work* and *heat* are equivalent energetic concepts in many respects; but in practice, though a given quantity of work can be completely converted into heat, a given amount of heat can't be completely converted into work. When change occurs in a Spiritual Realm sense, it is doing so through a series of equilibrium states in a process that is reversible. (This is obviously allegorical, to illustrate Change in balance to Nonchange; it implies the passage of space through time in a realm where neither exists as we know them.) That is the condition of non-entropic change. And it is true that non-entropic change can occur in the Physical Realm, as a Spiritual Realm reflection. But when change is occurring in a Physical Realm sense, it is doing so through a series of non-equilibrium states in a process that is non-reversible. That is the condition of entropic change. It is for this reason we can say that with light the Veil was opened, with sound it was closed, since such a change in state occurred that made it impossible to return to the Spiritual Realm. A finite limit was forever placed on tangible frequencies. But the thing that was ultimately responsible for not being able to go home again was heat, the tangible manifestation of which occurred once the Veil was closed.

Again, though, it was heat that made it possible for Form to come from Substance. And that began with the **Q** particle. I've already speculated about how it appeared, as well as what it is and what it does. I kept my initial presentation as simple as I could, for the sake of Sir William. (And he may not think it was simple enough!) But I have a feeling my discerning readers would appreciate a more thorough treatment. An explicating review is called for now. To reiterate, **Q** is Unity. Duality manifests actual **Q** wave with potential **Q** particle in Intangibility. The *Transition Phase* brings them into Tangibility with Dual Duality. Then, the Realms couple, energy builds to infinity and the Big Bang occurs as potential matter starts to become equivalent matter in an infinite number of points. So, when we say the **Q** particles appear in the **Q** wave, we are referring to the Physical Realm appearing in the context of the Spiritual Realm. In Intangibility they are dualistic. **Q** wave and **Q** particle are energetic Extremes manifest from Unity. But in quadralitic Tangibility, the **Q** particle itself is infinite actual energy with infinite potential mass. Remember how those are the point conditions manifested from the dual process of expansion and contraction earlier detailed? This is perhaps the best way to visualize the **Q** particle at the initiation of the Big Bang. Down the road it will find a tangible reflection in the substantially more finite photon, which is a force with no charge and an equivalent mass. (And quite remarkably, is its own antiparticle!) But the **Q** particle should not

be construed as an early version of the photon. While the **Q** particle likewise has no charge, it intrinsically contains the potential for both. As these **Q** particles appear in and interact with the **Q** wave, each separates into polar opposites. Inflation begins as the Quadrality of Spiritual/Physical wave and Positive/Negative particle is manifest. The resolution of their interaction culminates midway between 10^{-43} and 10^{-44} seconds.

Consider only the **Q** particle at the Big Bang – the unification of intangible and tangible material principles. Its manifestation produces the point of energetic transition over which Einstein's equivalence equation spans. The claim that this **Q** particle popped out of nothing shouldn't really surprise anyone with a knowledge of the quantum world. As previously noted, scientists have discovered that given sufficient energy, quantum particles will appear from nowhere and then just as quickly disappear back into the nothingness. In the *Tangible Spiritual Realm*, the Principle of Light had expanded as the Veil was opened from the Spiritual side to manifest the Physical Realm. This initiated the release into the Root Physical Realm of an infinite amount of actual tangible energy. With it the Principle of Sound then contracted all that energy into a potential point as the Veil was closed from the Physical side. Infinite, oppositional movements then caused everything within the boundaries thus created to vibrate at their *First Harmonic*; since, as we know, the *First Harmonic* occurred in the Universe that is both an open and a closed system, producing a node and an antinode at the Balancing Center. *Parallel Resonance* effects the build up of energy on either side of it. *Series Resonance* provides the movement of energy into it while the parallel circuit resonates. Oscillations sync the two Realms together, which sets the God/Universe network into vibration. (Recall that infinite oscillations couple the Root Realms through their intangible and tangible wave aspects. We'll see that illustrated in **FORM #2** on p. 521.) The vibration of capacitance is in their wave fields, the force of induction is in their particle currents, the heat of impedance is in the parallel node, and the power of generation is in the series antinode. Without damping, *resonance* goes to Infinity. This is what produces the Big Bang – the Zero Moment in the *Transition Phase* as the *Infinite Fuel* gets ignited by the *Infinite Spark*. It's like super-heating water in a microwave oven. Even the introduction of a single disturbance, one tiny bubble, could cause it to explode in your face. For the Universe, all it took was a single **Q** particle!

With the Big Bang, the creating principles of Light and Sound become their manifested concepts of light and sound. Intangible aspects, unified at birth, separate into Tangibility. In that act, the Physical Realm **Q** has split in two – its Spiritual and Physical Extremes – reflections of Vibration and Force, Wave and Particle. Each still contains its polar opposite. For those opposites to be realized, Spiritual and Physical must interact. Spiritual then separates into Spiritual and Physical to create the *Field*. Physical separates into Positive and Negative to create the *Current*. Following this, the separate manifestations of Spiritual and Physical interfere as those of Positive and Negative collide. The energy release is so great as to be considered an act of Chaos, generating an incredible amount of heat. In fact, light, sound and heat all exist beyond their applicable laws and allowed values. It is at this moment that *Harmonic Alignment* and *Dynamic Stability* begin to moderate the proceedings and procreate elements at just the right mass and frequency to dampen and tune the Universe sufficiently to bring its Chaos under Order. And it is this process that prevents matter and antimatter from annihilating completely and thus canceling each other out. Somehow, the positive, negative, and neutral forces and particles all resolve in a way apparently predetermined to guarantee the Universe's success. As I've noted, it may

have been more a period of trial and error as the Universe worked out for itself through the alignment of the appropriate frequencies *exactly what it would need, where and when it would need it, and how it would need it* to survive.

This balancing process had to occur in accordance with the understanding that the harmonics in a closed 2-dimensional – or planar – system can resonate at non-harmonic frequencies. This is what establishes planar relationships that are integrated yet segregated in the *Quadralitic Cube*, as well as the overall “flat” state of the Universe; and the completed *Cube* will later show how all structures within it have specific axes alignments. By about 10^{-44} seconds, the **Q / anti Q** war had been resolved with the manifestation of the two Planck interactions, Gravitation and the Grand Unified Force, in accordance with which all eventual particles and forces will evolve. They do so in such a way that the balance between Positive and Negative in the creation of each will be maintained. Even the graviton, the particle hypothetically postulated to be the quantum of gravitational interaction and presumed to have an indefinitely long lifetime, zero charge and zero rest mass, is being considered by scientists as having a counterpart in a particle responsible for repulsion. But more than up-quark with down-quark or electron with proton – matter only – this is electron balancing with positron, proton with antiproton, neutron with antineutron, etc.

If you feel that 10^{-44} seconds is an incredibly short time for this to occur, recall what I said earlier and realize that prior to it the laws governing the limits of speed and distance, time and space, haven’t manifest. From the perspective of the Spiritual Realm, there is an infinite amount of each for such to take place.

As this section is meant to delve deeper into the evolution of **Q** than did my initial offering, a good way to do so is through a graphic presentation. Adapting [Figure R/M](#) provided a convenient introduction, while establishing continuity with the other underlying aspects of this construct; and, including **Q** in [Figure I/T](#) solidified its present context. But there are certain gaps that can only be filled if we look at **Q** on its own. We’ve focused on Principle/Concept, a key relationship underlying all evolution. Let’s now turn our attention to another, fundamental to the principles of *Root Duality* and *Duo-duality*. That is Separation/Interaction. They’re connected to the principles of Expansion and Contraction – instrumental in the movement of the energy that flows to balance Extremes with Means. But Separation and Interaction, as alternating principles, relate more directly to the evolution of **Q** as well as to the manifestation of the energy needed for Procreation. Begin simply with *the Source*:

Primal Q

Unity

This is the supreme state of Interaction, the unification of forces. To progress to *Root Duality*, Separation is required. It is the creation of Root Realms:

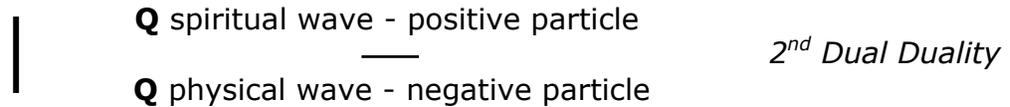
Q wave | **Q** particle *Root Duality*

Duo-duality requires Interaction. It is the manifestation of Root Models:

Q wave

Q particle *Duo-duality*

of their respective **Q**. This act of Separation into two dualistic **Q**, and the Interaction that follows, is the period of Inflation scientists believe immediately followed the Big Bang. (As you'll recall, though, our interpretation of Inflation is that based upon the **Theory of Harmonic Creation**, and thus only symbolically comparable to theirs.) As with *1st Dual Duality*, Interaction can be illustrated through a second form:



Since this is occurring after the Big Bang, and thus in Tangibility, a tremendous amount of heat is being created in 3-Dimensionality – enough to procreate, after 5.39×10^{-44} seconds, the *2nd level of Quadrality*:



Here, all four aspects of **Q** are tangible in the Physical Realm. When manifestation occurred at the *1st level of Quadrality*, all four aspects evolved from *Primal Q*. Now at the *2nd level*, the two forces with their antitheses have evolved from Physical Realm **Q** in *Root Duality*. So, at this *further level* the creating **Q** does symbolically represent, as queried earlier, the unification of four forces. But you may notice that none are labeled as an aspect of **Q**. That is because, as we have discussed, **Q** never makes it past the Planck time. Please also realize that only the dualistic processes have been explicitly described. But in all of the above processes, any time an interaction follows a separation, a triune intercession must be involved. As we learned while exploring the **Rules of Quadrality**, it is through Triunity that separates can interact.

In case you're wondering about the Spiritual Realm, being missing above, the *2nd levels of Dual Duality and Quadrality* occur on both sides of the Balancing Center. But in the Spiritual Realm, *Quadrality* is only in potential. It doesn't become actual until the Physical Realm, continuing to evolve to the *3rd level of Quadrality*, the point where Potential (G) Actual effects the return half of the *Cycle of Principle and Concept*.

You may also wonder what happened to the Wave/Particle differentiation in *2nd Quadrality*. Realize that what the two aspects of **Q** represent in *2nd Dual Duality* are the matter and antimatter forms of **Q**, both of which contain a wave and a particle aspect. Next we will learn how the two forces extant at *2nd Quadrality*, and their anti forces, are all procreated by the interaction of **Q** and **anti Q**. Each procreation has a wave and a particle aspect. Thus, it is no different than the realization we arrived at when *1st Dual Duality* evolved to *1st Quadrality*. Each aspect of **Q** was a potentially dualistic entity that would evolve to actuality at the next level. And the same can be said for how these two forces at *2nd Quadrality* evolve to four forces at *3rd Quadrality*.

So, what was contained in the ion-like broth existent at the Planck time? That may be impossible to determine exactly. In fact, who knows how many different variations in manifestation occurred even in *Dual Duality*, including those pre-elementary entities that didn't work! And what may constitute matter and antimatter

itself in the *Transition Phase* is perhaps even more unfathomable. Tangibly speaking, the clues refer to them as being charge conjugates. But, what would even constitute charge or magnetic moment at this point prior to Tangibility? On p. 471, I said that forces may be the result of phase and spin interrelationships between virtual masses in sub-quantum fields. (I say sub-quantum, because we're talking of existence in less than 1.62×10^{-35} meters!) And in discussing DNA frequencies I mentioned how phase and mass – which is, as we'll see, a field deformation at the quantum level – would sufficiently provide for *Harmonic Alignment* and *Dynamic Stability*. Thus, what I am then most clearly representing in all of this is the underlying harmonic principle.

In line with that, if it seems like I've spoken of **Q** in several different contexts, I have. Two were key in describing how **Q** evolves. While the *Theory of Harmonic Creation* was applied to both, the present has graphically depicted the relationship of **Q** to the evolution of *Quadrality* through the *Process of Further Levels* as it was first explained in developing Figure I/T. The other, which appeared on p. 456, explained **Q** in the context of the *evolution of the Four Fundamental Forces*. The *First Harmonic* is there described as being all that is needed to initiate the Big Bang. In this context, the Big Bang becomes the creation of the *1st level of Quadrality* across both Root Realms, with the tangible manifestation of **Q** wave and **Q** particle. On p. 456, the *Second Harmonic* is spoken of as the appearance of Gravitation and the Grand Unified Force following the resolution of the clash between **Q** and **anti Q**. Here, those forces appear at the *2nd level of Quadrality*. The *Fourth Harmonic* there has all four forces in Tangibility. In this context, the four forces manifest the *3rd level*. Back then I said that with the *Fourth Harmonic*, *Quadrality* was tangibly complete, which here occurs at the *3rd level of Quadrality*. Yet, the comparison makes sense when you think of four harmonics in terms of the four fundamental forces, indicating we've established a relationship, somehow rooted in harmonics, between these frames of reference. But, the present evolution of **Q** began at Unity, which is thus its *First Harmonic*. So, the relationship must be relative. And still, these are not the only frames of reference we've discussed. You may recall how Figure H-U illustrated the first four harmonics in *Wave Theory* as the *evolution of the Four States of Alignment, Unity, Duality, Triunity, and Quadrality*, which established the four realms and thus the *1st level of Quadrality* at the Big Bang. Harmonically speaking it corresponds to the present context. Yet, on p. 455 we had another frame of reference that likewise began at Spiritual Creation, the *evolution of the Planck time*, but it had the *Second Harmonic* at the Big Bang! Hence, I think it is essential to remind you that all these contexts are describing related frames of reference. The *Second Harmonic* in one frame could be the *Fourth* or *Eighth Harmonic* in another. For instance, in the *Wave Theory* frame of reference the four harmonics produce the *Four States of Alignment* at the *1st level of Quadrality*. In the *Planck time* frame of reference on p. 455, the four harmonics take us to the *2nd level of Quadrality*. In the *Four Fundamental Forces* frame of reference on p. 456, the four harmonics produce these forces at the *3rd level of Quadrality*. There is no problem in any of this, except for the mental acrobatics we may have to go through. In fact, it is why the Universe works, and why *Quadrality* as well as *Harmonic Creation* can model it. The *1st level of Quadrality*, with the four harmonics of *Wave Theory*, serves as the prototype for all future subdivisions in any compliant frame of reference, to the billionth and beyond!

Nonetheless, since the relationship of *Harmonic Frames of Reference* is so important for you to grasp, and since it is said a picture is worth a thousand words, I'll leave you with Figure F-R:

		EVENT	ALIGNMENT	HARMONIC		
				Figure H-U	P. 455	P. 456
BIG BANG I N F L A T I O N PLANCK TIME		Spiritual Creation <i>Primal Q</i>	Unity	1	1	
			Duality	2		
			Triunity	3		
		Physical Procreation <i>Manifest Q</i>	1st Quadrality <i>Quadralitic Plane</i>	4	2	1
				5		
			2nd Triunity	6	3	
				7		
		Two Forces <i>Tangible Q</i>	2nd Quadrality <i>Quadralitic Grids</i>	8	4	2
				9		
				10	5	
				11		
		Three Forces <i>Tangible Triunity</i>	3rd Triunity	12	6	3
				13		
				14	7	
				15		
		Four Forces <i>Tangible Quadrality</i>	3rd Quadrality <i>Quadralitic Cube</i>	16	8	4

Figure F-R : The relationship of *Harmonic Frames of Reference*.

From the *Physical Realm* half of *Manifest Q* (*P.R.M. Q*) at *1st Quadrality* will come all the **Q** and **anti Q** required for the two forces at *2nd Quadrality* – the Planck time – and in sufficient quantity and proper form to procreate our matter-dominated Universe. Now, how this was resolved is one of the greatest of creation’s mysteries. I promised earlier that Figure F-R would shed light on it. The answer is surprising, but it makes great sense considering what is known of the quantum world. We think so much in terms of Duality in creation, and the focus on a dual **Q** merely adds to it. But in so doing, we lose sight of the Triunity always working behind the scenes. Yet, its presence is clearly noted in Figure F-R at every alternate alignment on the way to Tangibility. It’s easy to assume that **Q** and **anti Q** would clash particle for antiparticle once they appear from *P.R.M. Q*. Of course, Duality is essential to creation. But, consider how important Triunity is in even the most elemental of particles. This was emphasized on p. 471 when I noted that it takes three Quarks, basic constituents of matter, to make either a Proton or a Neutron. Which of these it is, is determined by how many Quarks are up or down. Wouldn’t it be at least possible, if not incredibly likely, that **Q** and **anti Q** interacted triunistically, and that this was one of the Laws of Tangibility the Universe had to learn between the Zero Moment and the Planck time? Look at the first column of harmonics. Between the fourth of *1st Quadrality* and the eighth of *2nd Quadrality* is the sixth of *2nd Triunity*! The Physical Realm reflects the Spiritual Realm. That’s the **Principle of Balance**. In the Physical Realm, Tangibility follows Intangibility. That’s the **Law of Order**. Before the triune Quark there was the triune **Q**; before that, the Triune God.

While the symbolic mechanics made possible by this are certainly intriguing, to speculate on the actual mechanics we must realize that the two forces are different and themselves reflect the principles of Unity and Duality, as previously mentioned. So, there must be intermediary steps. And all you need do to see where they come from is look once again at the first column of Figure F-R. Aside from the various *dual* and *triune* harmonics, before the Universe manifests *2nd Quadrality* it will also have gained access to the *fifth* and *seventh*! But how they might participate is once again a leap into conjecture. However, since I’ve relentlessly endeavored to leave no stone unturned in the quest for truth, let’s take another trip into the *realm of 21st century possibility* and explore how Triunity could be involved in the evolution of **Q**.

Visualize *P.R.M. Q* separating into dualistic **Q** and **anti Q**, which combined triunistically in two ways: two **Q** and one **anti Q** creating the thesis, and the reverse, their antithesis. Now, realize there are two aspects of each that are combining – a wave and a particle. Let us suppose the particle aspects do combine triunistically to manifest the mass of the new particles. The wave aspects would contribute to the force. They would also provide the standing waves needed for *Harmonic Alignment*. But all that is required for this is a pair of waves with the same characteristics but 180° out of phase (which **Q** and **anti Q** would satisfy), moving in opposite directions (p. 363). Thus, Duality is likewise involved. And Quintality, the *Fifth Harmonic*, would make this possible, since it can be fathomed as a combination of Duality and Triunity! So, say that three **Q** combine with three **anti Q**, but as I just described. The mass aspects of the two particles manifested would be the same. (While I don’t feel tangible charge or magnetic moment would be a consideration, for the reason previously stated, a clarification on this is forthcoming.) But, whether there were two **Q** or two **anti Q** in a triune grouping would differentiate their waves. In either case, two of the three wave aspects involved would create standing waves. This would leave one wave aspect in each to carry on as the wave aspect of the new particle,

and these would maintain the in phase to out of phase relationship of the creating **Q** and **anti Q**. The *Seventh Harmonic* would then provide for another evolutionary opportunity, in which the next step from whatever was manifest in the *Fifth Harmonic* could find existence, in phase likewise paired with out of phase. My guess is that since force must balance with anti force, the *Fifth Harmonic* would enable the Unity of Gravitation to manifest with its anti force. The *Seventh Harmonic* would then enable the Duality of the Grand Unified Force to manifest with its anti force.

Now, since I'm already perched on the brink of fantasy, it might be best to leave this quantum juggling act to the recesses of your own imagination. But while I'm up here anyway, I may as well give you a glimpse into mine. And what you will see could surprise you. We know that spiritual precedes physical according to the **Law of Order**; thus, wave precedes particle in all interactions up to *2nd Quadrality*. Two types of wave interference are involved. We've already referenced one: standing waves are the result of destructive interference. And they occur because opposites attract: **Q** will attract **anti Q**. At the *Fourth Harmonic*, this is occurring one-on-one, so to speak, and it creates the underlying energetic sub-structure of Tangibility. But for Gravitation and its anti force it is two-on-one, which gives rise to the second type of interference – the constructive combination of like waves moving in the same direction toward the opposite wave. So, let's say it is the *Fifth Harmonic* that permits the interaction, since two wave aspects – one being the result of the constructive interference – and three particle aspects are involved. Separation then occurs in the *Sixth Harmonic*, since all three aspects of each must be accounted for, leaving the Universe with the first force, Gravitation, and its anti force. Let's now assign it a name and call it Repulsion. This gives us a clear picture of the true spiritual nature of the Universe as embodied by the **Principle of Balance**. Both sides are required. Before the Planck time, just as the Universe needed Chaos as a power in Creation, it needed antimatter for a fuel. So, to the Universe it's all good!

This leaves us with the Grand Unified Force to consider and its anti force. Let's also give it a name and call it the Grand Separated Force. Now, did these somehow evolve from the first two, with the original unscathed? Seems like quite a quantum juggling act, indeed! (And nonetheless, one we'll still consider.) But, I think the Universe's solution was far simpler, something that would make Sir William happy. Say that the multitude of **Q** and **anti Q** manifested in *2nd Dual Duality* constitute the building blocks of everything that would be existent at the Planck time. Let us also say that the means of combining them is the harmonic environment in which they breed. The *Fifth* and *Sixth Harmonics* would provide the alignments needed by **Q** and **anti Q** for Gravitation and Repulsion to be formed. Let us now take the same **Q** and **anti Q**, but see them being given new alignments in the *Seventh* and *Eighth Harmonics*. These are the ones needed for the Grand Unified and Grand Separated Forces to be formed. Being dualistic forces, their manifestation would be more complex, especially from the perspective of their waves. It was clear how, when **Q** and **anti Q** combined in threes, the third wave aspect would be either in or out of phase. Now, if they combined in fours – in equal proportion – neither would be left with an unaccounted for wave aspect. Thus, I feel they would combine three **Q** with one **anti Q**, or three **anti Q** with one **Q**. Standing waves would still be formed from a **Q** and **anti Q** pair, and each double **Q** or **anti Q** particle would be left with a resultant wave aspect that was either in or out of phase. But that aspect would be twice the amplitude of the original, since two waves had produced it! Thus, the Grand Unified Force would differentiate from Gravitation both in mass and in force.

How did it occur in the *Seventh Harmonic*? The same way as in the *Fifth* except that the interaction is now three-on-one. Upon the initial separation of **Q** and **anti Q**, their prime energetic directive was to interact! As they sought to do so, for the most part they interacted equally, and in keeping with the *Fourth Harmonic*. But as the *Fifth Harmonic* appeared, a pair of the same type would meet up and join vibrations along the way prior to intercepting their opposite. The *Sixth* provided for their separation. With the *Seventh Harmonic*, three of the same type could suddenly have the opportunity through constructive interference to join and act as two wave aspects intercepting the third, with four particle aspects involved. (Though you may think of it as a single constructive wave, like that in the *Fifth Harmonic*, it is a harmonic multiple. The component that doesn't contribute to the standing wave is double.) The *Seventh Harmonic* makes it possible since it can be understood as a combination of Triunity and Quadrality! Separation occurs in the *Eighth Harmonic*, since all four aspects of each must then be accounted for. So, everything that happened really was simple. With nothing but dualistic oppositions – the energies of **Q** and **anti Q**, the directives of Separation and Interaction, the interferences of Construction and Destruction – were born the two forces of Gravitation and Grand Unification, as well as their anti forces. And the only difference between them and their energetic birthplace was whether two or three common energies interfered constructively rather than none!

Now, please realize that while I have referred to them as forces, in keeping with convention, they are actually interactions, not to be confused with the particles and forces so participating. Chen Ning Yang in *Encarta* notes: "Elementary particles exert forces on each other, and they are constantly created and annihilated. Creation, annihilation, and force are, in fact, related phenomena and are collectively called interactions." ["Elementary Particles," Microsoft® Encarta® 98 Encyclopedia. Microsoft Corporation, 1993-1997.] While there may be several hundred elementary particles and forces in Tangibility, there are apparently only four fundamental interactions governing them. So, prior to Planck, it's perhaps best to just think of everything there in terms of **Q** and **anti Q**, since, as I said, the myriad of pre-elementary particles and forces involved, including those that didn't work out, are possibly too staggering to consider. Quite frankly, the number may have been a lot smaller than we might think, but I don't dare speculate. The Universe merely learned how to make these ingredients it was given work in its evolving harmonic environment. As long as the energy was high enough (more than the rest mass of whatever particles were being created), matter and antimatter could change into pure energy and that energy could then change back into matter and antimatter. This is how the Universe could test for the particles that would work best. And interactions were the *modes of engagement*.

We've clearly shown how harmonics help **Q** and **anti Q** to align for either triune or quadralitic combination. It also falls in line with what we know of Realm and Model interaction, the manifestation of Extremes and Means, and the tangible progression of energies. All these modalities of existence have been interconnected by me through the **Theory of Harmonic Creation**. The evolution of harmonics symbolizes the manifestation of Realms and Models, which reflects the spiritual and physical transformation from energy to matter. The first and last sub-realms represent the Extremes of the Universe, as well as the beginning and end of the energetic progression of energies. What's in between represents the Means. (We'll cover this further when discussing the evolution of Quintality from Quadrality.)

Beginning with **Q** and **anti Q**, its energetic *extremes*, the Universe learned it could create standing waves with Duality. But interaction solely at the dualistic level

would cause nullification. So, though it had the material – massive energy created in the process – the Universe wouldn't have the harmonic tools to progress any further. Its ion-like broth would expand and cool, which, as Professor Scott mentions in his email replies, are the conditions in which the various elementary particle-antiparticle annihilations transpire, until about 10^{-5} seconds when thermal equilibrium is established between the remaining protons, neutrons, electrons, positrons, neutrinos, anti-neutrinos, and photons. But we must realize that cooling alone is insufficient. These evolutionary leaps required the progression of harmonics. Fortunately, **Harmonic Creation** has shown how in each *State of Alignment* these were inherently contained. And the **Rules of Quadrality** mandated that for a Realm to act through a Model required a triune aligning state. For pre-elementary particles, that's how the interaction of opposites produces growth rather than nullification. From Zero Moment, the middle realm, or *mean*, provided the common energetic ground between *extremes*. The energy at the *mean* would align with one *extreme* or the other. So, clearly, for either pair of interaction conjugates the triune state was instrumental.

Tangible Quadrality meant the Universe would have to learn additional *modes of engagement*. But it couldn't learn them until Planck Tangibility had been reached. Maybe all the Universe was doing prior to Planck was building its underlying structure of interconnecting fields. Maybe such things as forces, particles, magnetic moments, and charges weren't even a consideration until the Universe arrived at Tangibility. What was being created was an energetic framework, based on the paradigm of the *Quadralitic Grids*, and a way to make the continued manifestation of material forms of energy possible. During this period of *intangible tangibility* prior to Planck – in a world of *Dual Duality* – only two interactions were needed, or could even exist, to create this underlying energetic framework from the war between **Q** and **anti Q**. The particles of matter being formed, and their related forces, were merely variations in sub-quantum fields. As light was slowing down from infinity, eventually these wave deformations became tangible enough to require 1.62×10^{-35} meters for their interaction in 3-D space. It corresponded to establishing the limit of the speed of light in Tangibility, and the point at which the Planck time clock began to tick. At Planck there were still these two interactions, as well as the essential forms of matter needed to bring about this initiation of *tangible tangibility*. At 10^{-35} seconds there was an extra interaction to handle the Universe's growing material needs. By 10^{-10} seconds there were four interactions and even more forms of matter. There are scores of elementary particles presently known, but it may have taken "all that time" from 5.39×10^{-44} seconds to create the more complex building blocks that required the third interaction, and the even more complex ones that relied on the fourth. So, like the chicken vs. the egg, did the appearance of the interaction make possible the additional particles and forces, or did the appearance of the particles and forces mandate the interaction? Perhaps they're all just different energetic aspects of the same thing, finding their rightful place in the Universe according to the **Law of Order**.

You may wonder how the various particles knew with which other particles to combine. Initially, there were only **Q** and **anti Q**, which, as conjugate entities, were energetically destined to combine. But once Gravitation and Repulsion had begun to manifest and new harmonics arrived, I surmised they also combined together to manifest the GUF and GSF rather than by combining with the original two forces. But, could they have? The combination of **Q** and **anti Q** represented infinite frequencies at the *First Harmonic* of Tangibility. Every finite wave or particle born from them had an identifying frequency and wavelength in the underlying harmonic framework – which

determined alignments – along with the phase/spin characteristics inherited from their parents. But only from infinite choice can an infinity of finite selections come.

So, why didn't three **Q** or **anti Q** combine together without their conjugate? Following separation, the **Principle of Balance** needed to be upheld; and at least some degree of opposition is required for interaction in all aspects of existence. Thus, being oppositional isn't a bad thing, any more than antimatter is. It's a requisite for growth. Even without a tangible charge, **Q** and **anti Q** as oppositional entities have inherent energetic traits that draw them together while keeping similar entities apart. Then, why could three **Q** combine for the GUF, or **anti Q** for the GSF? Because, in addition to them there was always one aspect of the other *extreme* upholding balance! **Quadrality** was the highest *State of Alignment* whereby the need for similar entities to be separate could be overcome by the need for oppositional entities to interact.

The **Theory of Harmonic Creation** resolves many heretofore unanswered questions, the fundamental of these being everything that occurred leading up to the Planck time, by which the first two forces had mysteriously appeared. I will not have the audacity to claim this scenario to be any more than my mental excursion into the *realm of 21st century possibility*. Nothing before 5.39×10^{-44} seconds may ever be anything more than that. But, if this has indeed given us a glimpse at truth on God's side of the Veil, it would resolve a chief issue confronting Inflation – the sheer happenstance of its premise. As you know, I have not challenged Science's position on Inflation as the second creating event, only its interpretation of it. And as you also know, the present version stipulates that Inflation just happened to occur in a part of the early Universe where there was more matter than antimatter. This means there could be another part of the Universe beyond our horizon where this didn't happen, with dubious connection to our physical reality once you find and cross that border. It also seems to bring a certain element of faith to a field of study so committed to evidence for its truth. But such issues appear unavoidable. If Inflation occurred after the Planck time, it had to find some way to account for a matter-dominated world, where there is so much matter that if a particle of antimatter suddenly appears in the *Tangible Physical Realm* it gets annihilated by its corresponding particle of matter. Some theorists even doubt if antimatter serves any purpose beyond that in high-energy events, such as exploding stars or black holes.

Now, if Repulsion (an interaction we've associated with antimatter) does indeed exist, as scientists are beginning to think – as well as, perhaps, the conjugates of the other forces – they would certainly be serving a purpose, in fact a very important one. But they would be doing so somewhere within the *Tangible Spiritual Realm* (in the context of the *1st level of Quadrality*, as depicted in Figure I/T), and as a fully functioning anti force. It is for this reason that **Harmonic Creation** doesn't have Inflation's drawbacks. They'd not be antimatter in the same sense as that which has existed since the Planck time. (In other words, it would be like an intangible parallel to an electron with a proton, as opposed to an electron with a positron. In the *T.S.R.*, Gravitation and Repulsion wouldn't cancel each other out, but coexist, like Yang and Yin – oppositional aspects of the same principle, gender.) And as far as these anti force conjugates to the four separate forces are concerned, Repulsion may be the only one of consequence in Duality, since the other interactions are already dual in nature.

The existence of something that could seem like antimatter, yet not be, has actually been proposed by physicists since the 1950's to explain the phenomenon of Dark Matter. John Gribbin makes note of it in ***Asking Alice for the missing mass***. [http://epunix.biols.susx.ac.uk/home/John_Gribbin/tis.htm#Missing_mass.] It concerns the

idea that Dark Matter would be composed of baryonic, or ordinary matter, but with a reversal of left-right asymmetry. To explain it simply, the laws of physics could be reflected into a "mirror world" where the right hand became the left and the respective matter for each world would never interact except through gravity.

I won't presently draw a direct comparison with my own theory save for a similarity in the philosophic terms I've used in describing it, like "reflection" and "mirror." It's been noted more to show *science* has proposed things one may consider as much in the realm of *science fiction* as I have. "Shadow matter" is actually not the same as antimatter, since the first would seem to exist in an alternate Universe, and the second in ours. Yet, in the context of shadow matter, as Gribbin points out, physicists have likewise considered "the notion of an 'Alice string,' a linear defect in space with the curious property that a left handed particle circling the string would be turned into a right handed particle, and vice versa." [Ibid.] So, when I speak of conjugate entities that operate in a *Tangible Spiritual Realm* to enable a transition between Intangibility and Tangibility for **Dynamic Stability**, it must be considered within the scope of scientific possibility. And the *Superstring Theory*, which I've said may hold a key to this transition, requires the existence of a mirror particle for every particle, even if it's only the single one needed to satisfy the laws of physics. [Ibid.]

The **Theory of Harmonic Creation** would actually resolve another issue any variation of the *Inflationary Theory* would need to face. For, within **Dynamic Stability** can actually be found its support. In *Encarta*, Jay M. Pasachoff recalls a point I made early in my theory's presentation (p. 417). "The current version of the inflationary theory predicts that the density of the Universe is very close to the value that divides the two possibilities for its future: expanding forever or eventually ending expansion and beginning to shrink." ["Inflationary Theory," *Encarta*® 99. Microsoft Corp., 1993-1998.] I earlier called this the "stable" state. Based on the current size of the Universe and the matter in it, scientists can calculate its present density. That's why so much effort is being put into discerning what the matter is. Then, given the present rate of acceleration, scientists can determine if the density is sufficient for expansion or collapse. But, "if scientists collect definitive evidence that the universe is 'open,' or will expand forever, the inflationary theory would be proved false." [Ibid.] However, in **Dynamic Stability**, mass can change. Thus, density can remain the same as the Universe expands under that acceleration, or make adjustments if the rate of acceleration itself needs to change. So, if **Dynamic Stability** is in play, it would allow for variations in matter to accommodate a Universe that is both "open" and "stable," and *Inflationary Theory*, or at least our understanding of it, would hold.

As far as matter-domination is concerned, my feeling is it was not Inflation's responsibility. That occurred later for harmonic reasons. **Harmonic Creation** interprets Inflation to be a massive expansion occurring before Planck time when **Q** and **anti Q** existed in equal measure, and it was all needed, and used! It wasn't until after Planck when the bias of matter over antimatter became crucial. This indicates that by Planck the Universe had acquired the means and learned the ways to proceed. **Q** and **anti Q** had served their purpose and left behind not only the amount of mass needed for the fine tuning scientists are in awe of, but in just the right frequencies to allow for both harmonic and non-harmonic resonance. The Universe chose a matter-dominated, in phase world so it could harmonically align with the *Absolute Frame of Reference*. Things could exist out of phase in that context, but only if they were relative to it. But what is truly mind boggling for me is how it all changed at 5.39×10^{-44} seconds as a whole new set of laws kicked in. The proportion to then consider

was not just particle to wave but matter to antimatter. I think the only way to resolve this mystery is to realize that the new laws didn't stop the dual **Q** transformation; its finish invoked the laws. Starting at Zero Moment the speed of light is slowing down from infinity, and **Q** and **anti Q** interaction is occurring within 1.62×10^{-35} meters. The Universe is in a state of Chaos with infinite oscillations and manifesting what it needs to dampen itself. *Inflation could merely have been the result of the need for the Universe to create the space required between the particles and forces being manifested.* Once it had sufficient tangibility, light speed was where it had to be, minimum distance was where it had to be, and the end of the dual **Q** transformation struck the first tick of the Planck time clock. Now, while **Q** and **anti Q** are no longer around, the energy is still high enough that it can briefly be converted to other forms of matter and antimatter, and back, as Quantum Mechanics describes.

And so, vibrant with eight harmonics, at the advent of Tangibility would be found Gravitation, the GUF, and their anti forces, with all the preparation having occurred before in a place of physical truth I've called its *Transition Phase*. This begs the question as to whether they existed prior to the Planck time, since this is how I described their creation. Yes. They are involved in the damping process. One can only guess, though, as to what existence means during it. Now, does that imply there are four forces at *1st Quadrality*, and thus eight at *2nd*? No. The anti force is the mirror reflection (conjugate, or parity opposite) of the same force. And though I've just made an insightful speculation as to the possibility, what role it thereafter plays is perhaps buried too deep within the quantum world for us to ever see. So, what happened to all the **Q** and **anti Q** created at the Big Bang if they never got to see Planck Tangibility? They interacted before it and stayed behind as the energetic fabric of Root Physical Realm Intangibility – the *1st level Tangible Spiritual Realm*.

There are a number of aspects of this entire creation process that can lead to confusion. The chief of these involves referring to **Q** as a particle in a wave, as well as to the fundamental interactions being manifested as force. To clarify, the Big Bang is the transformation of Intangibility to Tangibility. In the context of the *Linear Order of Elements* this means there suddenly appeared, through the mechanics I've described, an enormous sea of energy of a form so high that it still can't be considered tangible as the Physical Realm will eventually come to know it. It is this sea of energy, as large as God needed it to be, that composes the macrocosmic **Q** wave. And within that sea is an infinity of microcosmic **Q** particles. These are not particles in a material sense, but merely deformations so fine in the energy wave that they can exceed the tangible speed of light and interact within the minimum Planck length. This sea of energy has inherent in it the ability to continue its own evolution to lower forms of energy. It does this by mastering four fundamental interactions. Two will take it to the point of *Tangible Duality* – the Planck time – and two will take it beyond.

Now, if there is only this sea of energy with point deformations and two *modes of engagement* before Planck, how can I then refer to a multitude of pre-elementary entities being tested by the Universe to master Tangibility? The solution is in the **Theory of Harmonic Creation**. Beginning with Unity, as noted there are an infinite number of frequencies, all with the same harmonic structure, from which the Universe can choose to accomplish growth through **Dynamic Stability**. Before the Big Bang, differentiation is only a potential (p. 361). But once tangibility arrives, in its evolving medium the wavelengths associated with the various frequencies will be defined. At the Big Bang, energy is so dense as to be the extreme of infinite non-density. (Remember, energy density is not the same as matter density, the infinite extreme of

which the Universe will wait for perhaps a billion years.) In this environment only the Extremes of frequencies will apply initially, corresponding to the two types of waves, with the Means to fill in as needed. After the Zero Moment, mechanical waves with frequencies touching zero will provide the macrocosmic interaction, their wavelengths spanning the entire Universe. And as we learned, after Planck some will have a period of perhaps 300,000 years, the point at which the CMBR is frozen in space. Within 1.62×10^{-35} meters, electromagnetic waves with frequencies just under infinite hertz will provide the microcosmic interaction. Even following Planck, the most miniscule tangible quanta will have frequencies staggeringly high. And today, scientists speculate that superstrings are about the size of that Planck length, with different elementary particles corresponding to their quantized modes of oscillation.

So, the pre-elementary entities are actually energy states being defined by their wavelength and frequency. And it is their harmonic relationship that is providing the capability for interaction. **Q** and **anti Q**, and the two interactions they produce, are all the Universe needs to work its way from Zero Moment to the Planck time by testing, with simple harmonic combinations, the infinite wavelengths and frequencies from which it had to choose. The Universe didn't know the Planck constants for time or length in advance, any more than it knew its eventual tangible speed limit, the speed of light. But when everything finally snapped into place, they just happened to be what the Universe needed them to be. It got there by learning that if *four fundamental frequencies of universal oscillation* were properly chosen, all the others it would ever need to satisfy the **Laws of Being and Existence** could be arrived at through their harmonic multiplication and division. But more than particular notes, the key was the relationship between them such that consonance and dissonance could be balanced in all future harmonically aligning systems in it from the Microcosm to the Macrocosm, and in any octave from first to last! Of course, the Universe needed specific frequencies for its post Big Bang ion-broth. But the principles learned would forever apply to any system or structure born from it! This is how resonant frequencies on Earth are related in everything from the Great Pyramid of Giza to DNA, with God's *Quadralitic Cube* to connect them through each of its *further levels*.

The application of the terms Extremes and Means is also worth clarifying, as they, like many other key dualities, have different forms of expression. One essential use was in describing the Physical Means being manifest between Spiritual Extremes. This may seem to contradict the terms' application re a range of values, where the Means is placed in the context of Spiritual and Physical Extremes. The difference is that the first use is a cyclic understanding – concentric realms – whereas the second is a linear understanding – the Balancing Center between tangential realms.

Another clarification concerns Figure I/T. In it, there is no mention of actual intangible matter. The reason is, as noted on p. 504, the balances listed in the Root Physical Realm uphold the range of values in each of its sub-realms at the *2nd level of Quadrality* (i.e., solely within the Physical Realm). Realize, they exist in the context of the previous level. There, actual intangible matter balances with potential tangible energy in the *T.S.R.* (These reverse in the *T.P.R.*) At that level, the *2nd* across both root realms, differentiation is sufficient for the first two forces and their respective particles of virtual matter – or actual intangible matter (compares to *2nd Quadrality* in Figure F-R). The evolution to actual tangible matter occurs in the *3rd level* across both root realms, the one in fact referenced by I/T. Also, in Figure I/T there is likewise no mention of potential intangible energy. That's because it would reside with God in **UNITY** and preexist everything, including the separation of Change from Nonchange.

A fourth point needing to be clarified regards how I've described pre-elemental particles differentiating from antiparticles. I noted that charge and magnetic moment probably have no relevance prior to Tangibility. After all, both of these properties relate to electromagnetism, which is an interaction that will be manifested from the Grand Unified Force after the Planck time. But, phase relationships in sub-quantum fields could serve to differentiate. We saw how that then applied to the difference between the wave aspects of Gravitation and Repulsion, where one would have an extra **Q**, and the other an extra **anti Q**. It also applied to the difference between the Grand Unified and the Grand Separated Forces, but with each having two extra **Q** or **anti Q**. However, I've yet to focus on spin, a property of all elementary particles, even if a particle isn't moving. ["Spin," Encarta® 98.] So, it's reasonable to assume our pre-elementary particles would manifest some form of spin, which is totally in keeping with the *Quadralitic Cube*, since rotation is one of the inherent properties of the Universe it models and the *Cube* is doing so for Microcosm as well as Macrocosm! Moreover, *Encarta* notes that magnetic moment results from spin. ["Bohr Magneton."] Thus, while magnetic moment may be inappropriate to ascribe to something prior to electromagnetism, the appearance of spin at the pre-elemental level would be the precursor to it. *Encarta* also says that spin isn't a factor in differentiating particle and antiparticle at the elemental level. However, the moment caused by spin, which is a function of the orientation and strength of the magnetic field of an object, is. So, it's appropriate for us to consider spin at the pre-elemental level in this differentiating sense, since orientation and strength are what spin is reflecting there.

Let us then say that the property of *spin* may be the physical balance to spiritual property of *phase*. Let us also assign a value of $\frac{1}{2}$ to the spin of **Q** and $-\frac{1}{2}$ to the spin of **anti Q** (i.e., left-handed vs. right-handed spin as designated in *Encarta*). ["Exclusion Principle."] These values would then correspond to the spins of Gravitation and Repulsion. But, since the Grand Unified and the Grand Separated Forces have two extra **Q** or **anti Q**, they would have a spin that's double Gravitation and Repulsion, or 1 and -1. Now, it is clear in *Quantum Theory* that the Grand Unified Force will evolve to the three fundamental interactions complementing Gravitation, so comparisons of phase and spin may be difficult among the multitude of elementary particles that display any of these interactions. But there is a powerful symbolism in this that must not be missed. *Quantum Theory* stipulates that spin can have only certain discrete values, which are *half-integer* or *integer* multiples of the fundamental angular momentum unit! Thus, quantum spin differentiation begins right from the *Transition Phase* with the very first interactions between **Q** and **anti Q** as they procreate Gravitation, the Grand Unified Force, and their respective anti forces.

Now, did the Universe have everything it needed to give structure to its virtual mass if phase and spin, the spiritual precursors to charge and magnetic moment, are the two "engineers" of the pre-Planck Universe? How may they actually supply it? The answer: through parallel and perpendicular axis alignments, which I also said the *Cube* models. In Tangibility, such alignments are exhibited at the molecular level in all sorts of solids. At the pre-elemental level they reveal how Order itself came from Chaos. My reply is obviously conjecture; but, say initial interactions were completely random. Any resultant vibrations and forces would likewise be so, until their inherent energetic natures furnished the orientation and strength required for structure. Phase would provide for parallel alignments of vibration through interference. Standing waves would be formed only from wave components in opposition, with negligible synchronization off axis. Spin would allow for orientations of force perpendicular to

these axes through vector mechanics. The components of vibration and force in common planes and axes would combine such that a collective strength is achieved. For oscillatory balance and torsional stability, sub-quantum regions with alternate phase and spin could complement each other by aligning in counterposed X-Z planes, much like checkerboard layers with white squares over black along the Y axes. Through the energetic sub-structure of these *Quadralitic Cubes*, the evolving waves and particles could move. (Rotation around any Y axis through the counterposed *Cubes* would be uniform as a result of the reversal of the *hand rules* for **Q** and **anti Q**. Axes would then alternate. *Footnote 195*, pp. 620-621, will elaborate on this.)

And finally, I've said there may have been a myriad of particles and forces tried unsuccessfully during this *Transition Phase*. However, in the last few pages you've seen reference to behaviors a little more "design friendly." Thus, I still wish you to consider this possibility. There are numerous verified facts apparently pointing to a level of design far beyond statistical probability. Therefore, it is certainly possible the **Laws of Being and Existence** God had provided the Universe were so profoundly constructed, and His unlimited energy so carefully supplied, that the Universe could make no critical mistakes. Its system of checks and balances was so precise, even the slightest deviation would invoke the appropriate response. Now, while the truth of God's providence would be less of an issue for the religiously inclined, I realize I can't expect those scientists among you to blindly nod in agreement. The end result was a Universe that worked, so the extent of trial and error is not important to it as long as success, rather than failure, was the outcome. But the more I think about it the more I'm inclined to favor the perfection in *Divine Design* (often referred to as *Intelligent Design*, or simply *ID*). After all, if such a staggering degree of perfection existed after Planck Tangibility, imagine what existed before. The **Principle of Balance** would require it to be there and the **Law of Order** would exclude many, but obviously not all, of its present tangible limitations. And once the Universe started to vibrate from the cacophony of the Big Bang, it quickly found its way, as if guided by some unseen Hand tuning the pegs of its strings, to the four fundamental frequencies it would forever need to turn that noise into beautiful music.

As you know, whenever possible I've tried to provide physical substantiation for my spiritual speculation. I would like to do that now, even though it may have no influence on how the scientific community perceives my work, especially with regard to this hallowed subject. Begin with what scientists call the *Standard Model* in Physics. It summarizes their current understanding of elementary particles and the fundamental forces in nature. Basically, in *Quantum Field Theory*, matter consists of particles called fermions, and forces are mediated by the interaction or exchange of other particles, called bosons. So, matter and force boil down to fermions and bosons. Fermions come in three families, each comprised of particular quarks and leptons. With respect to the three basic constituents of an atom, leptons are electrons and quarks make up protons and neutrons. That takes care of matter. Forces are mediated by bosons, and there is one associated with each of the four fundamental interactions. Gluons mediate the strong nuclear force, photons mediate the electromagnetic force, weak bosons (sometimes referred to as weakons) mediate the weak nuclear force, and gravitons supposedly mediate the gravitational force.

Given the simplicity of this, I think it should be clear why I feel everything that occurred after Planck Tangibility could have begun with only **Q** and **anti Q**. And what my scenario has endeavored to do is explain how that happened prior to Planck Tangibility, leaving the Universe with the ways and means to progress beyond it.

But, aside from offering a different interpretation of the Big Bang and Inflation (which, I admit, is no small affair), I have done nothing to contradict the known or rationally postulated mechanics of *Quantum Theory*. And there is one essential question the scientists are still working on in that regard: why the Universe developed an extremely slight bias for matter after Planck. I've provided an explanation through **Harmonic Alignment**, but until the mechanics of frequencies and virtual equivalent masses involved are worked out, it can only be speculation.

One of the most curious things about it is the precision of the balance. So, what have I offered in my pre-Planck exegesis to explain it? Because, if you consider my descriptions of the two types of **Q** and **anti Q** combination, which arrive at the first two interactions, everything at Planck is still in balance. The triune combination that manifests Gravitation produces Repulsion in equal measure, and the quadralitic combination that manifests the GUF produces the GSF in equal measure. So, to find the spiritual imbalance that established the precedent from which the physical imbalance will later come, keep in mind these interactions involve wave deformations that have a spin, either $\frac{1}{2}$ or 1 for matter. Now, it may be that as the Grand Unified Force later evolves, the spin of particles involved will evolve as well, since fermions, the constituents of baryonic, or ordinary matter, have odd half-integer spin ["Spin"], and bosons, or forces, have integer spin. The point I have yet to mention about the latter is that bosons can also have zero spin. This is the case of photons; and it is believed that after all the particle-antiparticle annihilations occurred, the Universe was left with photons and baryonic matter in a ratio of 1 billion to one! That doesn't seem like a whole lot of matter, especially considering what we see with our own eyes when we look up into the sky at night. But, Doug Scott points out that if matter-antimatter annihilation had been completely balanced, the ratio of photons would be far higher. Therefore, he says, the real question may be why so few photons are around.

What I'm suggesting is that the imbalance between matter and antimatter only exists in the *Tangible Physical Realm* because that's what the **Law of Order** requires. The spiritual counterparts to these do exist in equal measure in the *Tangible Spiritual Realm*. The **Principle of Balance** established the precise balance essential to the particle-antiparticle symmetry before Planck, and which extended even beyond it to about 10^{-5} seconds. Then, the **Law of Order** mandated a bias toward matter, a bias established by harmonic relationships prior to Planck, when virtual equivalent mass was created with just the right frequencies to tune the Universe. The key is, very little was needed to do it. The balance had to be ridiculously close, to maintain the intensity of the nuclear reaction needed for creation without it going out of control.

Though "shadow matter" may require the existence of only a single particle, after Planck there was quite obviously a lot more antimatter. But, the idea makes you realize that the Universe in its pre-Planck era didn't need more than one triune or quadralitic combination of **Q** and **anti Q** to establish the first two interactions. Thus, there were only as many as required for **Dynamic Stability**. (And, considering the intensity needed for creation, most probably had to combine as pairs.) As I said, those that didn't combine for the two interactions produced the energetic substructure of the *Tangible Spiritual Realm*. This is a wave of spiritual energy with no resultant phase or spin, and which is its own antimatter. But even some that did combine were as pairs where spin is nullified in a way that intangibly emulates the photon. So, the cumulative relationship of the **Q** / **anti Q** deformations necessary to tune the Universe – as mass with phase and spin – to the energy in which they were born, could be the same ratio that baryons (protons and neutrons) will later have to photons. Thus,

it would also establish the ratio of matter over antimatter that the Universe will uphold to accomplish it! As far as the mechanics, all I can say for sure is that the quadralitic interactions and their harmonics were the maestros in matter-domination, since the dual dualistic ones are still harmonizing in the conjugate regions of the sub-quantum harmonic fabric of Intangibility. But, for the lower harmonics of the first two forces to have evolved to the higher ones of the final four, only matter could sing! The reason is simple. On p. 517 I said heat differentiates the Physical Realm from the Spiritual. Our clues noted that, with few exceptions, solids expand when heated and contract when cooled. In the microcosm of Tangibility, elementary particles spin in both directions in a medium, reflective of their sub-quantum roots as **Q** and **anti Q**. But in the macrocosm of Tangibility, a medium must spin in a single direction to expand or contract, reflective of only one. In choosing the spin of **Q**, in essence the Universe chose everything the positive conjugate implies: creation over annihilation. So, while the harmonics of matter kept going, the harmonics of antimatter stopped at the 3rd level of Quadrality with the 16 that produced the *Quadralitic Cube* for **anti Q**. That's how antimatter got tuned out! In Tangibility, the higher harmonics of matter turned the noise of Chaos into the music of Order. The lower harmonics of antimatter can still be heard with those of matter, to counterpoint the underlying pulse and beat!

Thus, it was the **Principle of Balance** and the **Law of Order** that established the ways and means. But, through **Harmonic Alignment** and **Dynamic Stability** (which still today maintain proportion-like relationships between matter and force), choices were made and lessons were learned and then adapted as the realms evolved.

Scientists are currently searching for tangible evidence to the missing pieces in their model for creation. The ultimate prize would be the particle that links the four forces together. I've called it **Q** and explained why I feel it will never be found. Another is a magnetic phenomenon we'll cover shortly. But perhaps the most actively pursued is the missing force carrier I just referenced, the graviton. It's associated with Gravitation, and considering it brings up a most interesting point. At Planck, two forces exist, Gravitation and the G.U.F. I mentioned the other two arrive after Planck. But, realize they come from the G.U.F., and thereby leave behind the Strong Nuclear Force as the second force. Thus, the G.U.F. only applies until Planck, and may still as part of the intangible energetic fabric of the Universe, but not in Tangibility. However, its pre-Planck mate, Gravitation, was not only the first force manifest in Intangibility to make the Universe possible, but is still the one responsible for holding macrocosmic Tangibility together. So, what might the graviton be and where might we find it? It's my feeling it is where it always was, unlike the other force carriers. And as scientists begin to expand their view of quantum fields to include the virtual variety, they will get closer to understanding the connection we have on this side of the Veil to the intangible unifying force of attraction our Creator left behind on the other.

Before moving on, I'd like to take this moment to summarize my vision of *Harmonic Creation*. But to do so, I need to respectfully thank and bid adieu to a colleague of yore – the renowned Sherlock Holmes – who has so graciously offered his assistance in our quest to solve this great riddle of the ages. What I have to say must be done as myself. For, while Mr. Holmes has been so helpful in his applying logic to the theory, there is an aspect of the vision that must defy it because it occurs in a way and in a place where logic, as a mortal being could know it, doesn't exist. So, while I have often drawn from my great love for solving mysteries as a young man, I must now return to my second great childhood love, that of *science fiction*, for these closing comments on *Harmonic Creation*. Many times I asked you to think of what I've done

as such to minimize potential blocks to a valued reader's open mind. And, the fact is that any seeker of truth pursues a course designed to solve life's mysteries by looking at the *realm of possibility* for answers, 21st century or otherwise.

I hope I can adequately convey my vision to you now. It begins with the recognition that something transcends the transcended, and preexists the existing. I've called that God, though if you choose to think of it as energy, fine. But it is an energy so high and so vast as to be tangibly incomparable. It operates according to Laws that govern the tangible, but that dwell in Truth that knows no change. And it has a capability for consciousness beyond anything that is or can be perceived.

This incredible intangible energy, which I refer to as spiritual, sought balance as its physical extreme, tangible matter. To do so, at all times the *Principle of Balance* had to be maintained and the *Law of Order* had to be followed. So, the spiritual and physical *Spiritual* Extremes proceeded to manifest their positive and negative *Physical* Extremes. But they had to begin at the finite Means, the infinitesimally small point where the transition could be made. That point contained the potential for infinite physical actuality, but the manifestation of that actuality required an infinite number of points. This was the event named the Big Bang. Yet, all those points are still of an energy so high as to be only governed by Spiritual Laws. At the *Spiritual* Extremes of the *Law of Order*, part and whole are the same. All those infinitesimally small points, which I've called the **Q** particle, contained the same potential, all were imbued with the same *Rules* and *Structure*, and all had the same physical directive – to learn what it would take to achieve Tangibility, and do it. The **Q** could communicate its growing body of wisdom to each other in the infinite field, beyond causal contact, such that the Universe as an infinite, cohesive unit could achieve Tangibility together. This was the only way it could remain stable through its initial chaotic period of change.

The transition from spiritual to physical began in a point of microcosmic infinity. There is no way for us to relate to that. The Planck microcosm is limited to .162 meters with the decimal place moved to the left by 34 zeros. But microcosmic infinity has no limit to the zeros! No matter how many you add, you can always add more. And from that first microcosmic point of infinity containing the potential, wisdom, and directive for the collective, came macrocosmic infinity, an infinite number of those points. But not just macrocosmic infinity as we might think of our visible Universe, which has an estimated radius of 3.0 meters with the decimal place moved to the right by 26 zeros, but no limit to those zeros as well once you include all we can't see. Not only is it impossible to conceive of such a scale, but realize that in a flash the Nothing of microcosmic infinity became the All of macrocosmic infinity!

Nonetheless, the creation of the Universe through the Big Bang wasn't sufficient to manifest a Tangibility that could exist according to physical laws. That required an incredibly small period of time – in our frame of reference – for the energy that was manifest in microcosmic tangibility to reach macrocosmic tangibility. This was the period we've called Inflation. The Universe had to become a place hospitable for the physical laws needed for the physical extremes of existence. It is in this period that enough of that virtual equivalence became actual equivalence. Limits had to be placed on everything, since everything began as some manifestation of spiritual infinity. (This is for Time as well as Space, since the Zero Moment is the simultaneous presence of Infinity and Nullity for each.) And still, those limits had to be uniformly derived and applied to maintain balance. So, as all those microcosmically infinite points of **Q** separated and interacted in the infinite macrocosmic wave, virtual matter became manifest in such a way that the infinite zeros contracted into something more

tangibly manageable. And, that required the space and time to do so. It also necessitated *modes of engagement*, first one, then another. And at all times balance was maintained, both in terms of spiritual and physical, and positive and negative.

But, Tangibility required the Universe to realize two new **Laws of Being**. It was created with the *Principle of Balance* and continued to be manifested under the *Law of Order*. Now it needed a means of communication. That was the *Principle of Harmonic Alignment*. All its energy contained frequencies, and those frequencies had harmonic relationships that allowed the frequencies to align and synchronize their operation. It had access to frequencies that gained information from the microcosm, and other frequencies that spread the information learned to the macrocosm. Still, the Universe needed another Law because it realized that everything was constantly changing, any action would invoke a response, and equilibrium through these changes had to be realized. That was the *Law of Dynamic Stability*. Its first application was the navigation from potential to equivalence. Tangibility had to be manifested; that required energy in a material form; and it had to be derived from its intangible source. It was then the Universe found its first **Law of Existence**, the *Law of Universal Use*. It had *what* it needed. As far as *where* and *when*, that was clear. It was always and everywhere, beginning with the then and there. It just had to learn *how*, which it obviously did quite successfully.

Again, what the Big Bang represents is the transition from infinite material potential to infinite material equivalence. It's a transition that must begin in the microcosm, because that is where the energy of the Means is focused. It then moves into the macrocosm by the "simultaneous" transition of an infinity of microcosms. Each point represents the same material equivalence. Thus, all **Q** are identical. Their matter begins as virtual equivalence in the *Transition Phase of the Physical Realm*, and becomes actual equivalence at Planck. Planck represents the beginning of finity. Before that, everything is spiritually infinite (*Tangible Spiritual Realm*) in the sense that there is nowhere **Q** isn't, and its source is unlimited. Finity is the process of placing limits on the energy manifested such that it can conform to physical laws. So, from infinite material potential came a finitely defined infinite material equivalence as quantity, speed, distance, time, etc., became relevant in the *Tangible Physical Realm*. All these things were still infinite in the Spiritual Extremes of the *T.S.R.*

How does this fit into the macro-science of tangibility – *Relativity*? Einstein's equations apply because everything we see could have come from a point, since each has the same virtual equivalence. But, while our Universe could have come from a point, that doesn't mean all the matter we see had to come from that point. It merely means, that point triggered the other points, which collectively manifested the matter. As potentiality became equivalence, all points shared in that equivalence but in an infinite sense. This is the Universe's physical application of the spiritual principle of the *Holy Trinity* – the whole and the parts are equivalent. Only at Tangibility, when the required equivalence has arrived, will the sum of all parts equal the whole.

Thus, it is clear why **Q** particle can't be the same as the photon, merely its spiritual precursor. The same could be said of **Q** wave for the magnetic monopole, allowed by *Inflationary Theory*. All tangible magnetic materials are dipolar, but the monopole may be the manifestation of a single pole. Thus, it would be a basic unit of magnetic charge, just as a proton or electron is a basic unit of electric charge. And theorists believe our entire visible Universe may contain only one. The **Q** wave would spiritually precede the monopole of *Inflationary Theory*, but only if, as in our theory, Inflation occurred prior to Planck. Then, no charges or poles are associated with their

spiritual precursors, the phase and spin that differentiate the aspects of **Q** interacting to produce Gravitation and the G.U.F. After Planck, charge aspects exist separately, while pole aspects can't. So, these post-Planck electrical and magnetic aspects themselves represent Separation and Interaction. But how **Q** particle and **Q** wave produce them should be seen more as a collaborative effort between microcosm and macrocosm, which likewise illuminate the pre-Planck photon vs. monopole. While an infinity of microcosmic **Q** particles existed, there was only one infinite macrocosmic **Q** wave. Still, should scientists seek them, neither will be found on this side of the Veil.

Our Universe began in a point only in the sense of a single microcosmic event triggering the Big Bang at Zero Moment. But by 5.39×10^{-44} seconds, the region of the Infinite Universe that is ours had expanded by the inclusion, and then separation and interaction, of a sufficient number of microcosmic points to create what we see today. It didn't contain all we see, because that has been regulated and modified through *Dynamic Stability*. But, whatever was there was enough, both in content and quantity, to initiate it. Moreover, it must be understood that the phenomenon of mass and density was shared by all points participating in the process before 5.39×10^{-44} seconds. Working as a collective virtual consciousness, even through regions beyond causal contact, they all uniformly drew from the *Infinite Source* – as well as shared in the knowledge gained through experiment and observation – so that at 5.39×10^{-44} seconds, everything was correct and it was everywhere the same. Intangibility became Tangibility as a cohesive unit. Otherwise, such things as a constant for time or distance could not exist. They wouldn't be constant! There'd be another part of the Universe not at the same age, or exhibiting the same physical properties.

Now, is there really a mystery as to why matter needs 1.62×10^{-35} meters, why the *Transition Phase* ended at 5.39×10^{-44} seconds, why the speed of light is 300,000 kilometers per sec., or why the microcosm is homogeneous and isotropic? No! That's what they had to be! There is no mathematical formula to go from infinity as God knows it to finity as we do. But it is surely clear that at 5.39×10^{-44} seconds the Universe had, through *Harmonic Alignment* and *Dynamic Stability*, manifest just the right types of matter, at the right frequencies and at just the right uniform density, to accommodate the physical laws of Tangibility existent at Planck. From Zero Moment, *Harmonic Alignment* synchronized the process and *Dynamic Stability* varied the mix. It is only the *Infinite Source* – from which it drew – that never varies. At Planck, *Harmonic Alignment* was still in play. But, *Dynamic Stability* became more the key to stabilization than manifestation because the Universe had, for the time being, the necessary ingredients. And so, the "what, where, when, and how" of *Universal Use* made the changes accordingly. Balance still had to be maintained, but the Universe had to learn how to function on its own. And by constantly monitoring its successes and failures, *Harmonic Alignment* would eventually let God know when it needed help. That would happen as the CMBR froze in space and the parent Universe would separate into its multitude of celestial children, which all had to remain as one happy family so God could smile as He looked upon His *Big Picture*.

Though the *Transition Phase* may have seemed like a rather bizarre concept at first, it is now easy to see how it fits into the complete scenario, generating an energetically progressive dual duality over both Realms. Spanning the Balancing Center, *Manifest Q*, the unification of four forces, was being created as the Physical Means between the Spiritual Extremes. Still, it existed in its *1st level of Dual Duality* state, as the focal point for the energy being focused "while" the two realms went into infinite resonance. At Zero Moment, **Q** wave and **Q** particle burst into Tangibility with

the 1st level of *Quadrality*. But, each is also a tangible unification of forces. When they then interact and separate dualistically, they are co-creating Tangible *Quadrality* as Dual Duality completely in the Physical Realm. From these four aspects come Gravitation and the Grand Unified Force. As evolution continues, Physical Triunity then becomes manifest as the Grand Unified Force splits into the Strong Force and the Electro-weak Force. This linear manifestation is quite unlike the cyclic manifestation of Spiritual Triunity. Obviously, the Physical has reflected the Spiritual, but their behavioral constraints are very different. The Physical Triunity of the Universe has them and the Spiritual Triunity of God doesn't! And neither would quite be like Triunity as manifested in the *Transition Phase*, the one that walks the line between. Finally, *Quadrality* will be fully manifest as the Electro-weak Force splits into Electromagnetism and the Weak Force. Now, working scenarios for how this occurs have already been pieced together by the cosmologists and physicists trained to investigate this bit of the puzzle. All we can add is our philosophical perspective. Of course, since the last two forces are manifest in Tangibility after the Planck time, **Q** and **anti Q**, as such, are no longer involved, or even around.

It is at this point, perhaps some 10^{-10} seconds or so after the Big Bang, that the procreation of the *Quadrality Cube* in Tangibility has been completed. While the creation of the *Quadrality Cube* in the *Tangible Spiritual Realm* was instantaneous – in accord with the Cyclic order – the continued manifestation in the *Tangible Physical Realm* of all its represented matters and energies must follow the Linear order. This requires adherence to the laws and processes of such manifestation.

The Physical Realm **Q** – once found in the *Tangible Spiritual Realm* – was a virtual equivalent particle. It originated in the Root Spiritual Realm simply as **Q** and contained the Principle of Nonchange. The separation of **Q** into two was the Principle of Change. Nonchange exists in Actuality solely in the Spiritual Realm; for, everything in the Physical Realm is an aspect of Change. Nonchange does exist in the Physical Realm in Potential – *the ideal* that can never be realized but against which all *the real* is measured. If it wasn't in the Physical Realm in that sense, then, there would be no *Absolute Frame of Reference* to guide us. The **Q** particle could only exist in the Spiritual Realm as potential intangible matter, or in the *Transition Phase of the Physical Realm* as potential tangible matter, but before any actual tangible matter exists in the *Tangible Physical Realm*. (Refer to Figure I/T.) For matter to exist in the Physical Realm, regardless of how small, means that it has to at least have actual equivalent mass, not just virtual equivalent mass; and that can only happen in the *Tangible Physical Realm*. So, since the **Q** particle is a virtual equivalent particle, and it can't exist once Tangibility has been achieved, Planck time then becomes *the amount of time that it takes for virtual equivalent matter to become actual equivalent matter*.

Thus, the Big Bang's initial aftermath is occurring while the Universe is still in its *Physical Transition Phase*, learning the *Rules of Tangibility*. Spiritual states of being are becoming Physical conditions of existence. Infinite Light and Sound are becoming finite light and sound. Intangible matter is becoming tangible matter. At each stage, first the appearance of the pair of **Q** particles, one on either side of the Balancing Center, and then the manifestation of Positive **Q** and Negative **Q**, Duality is evolving to *Quadrality* through each *further level*. Conditions of Chaos prevail – absolute light, sound and heat. Finally, by the time the Universe is actually ready to measure time – 5.39×10^{-44} seconds – the 2nd level of *Quadrality*, or 1st in the Physical Realm, achieves Actuality. At this point, sufficient damping has occurred so the two forces understood to be existent at the Planck time – Gravitation and the Grand

Unified Force – can be fully manifest in Tangibility. As *Further Levels of Triunity and Quadrality* appear, so do more forces and particles, all according to the game plan the Universe learned in its *Transition Phase*. It was born with the *Rules and Structure*, but it had to learn how to apply them.

The Big Bang occurred as the newly manifest *Conditions* of **Q** in the Physical Realm energetically coupled with the originally created *States* of **Q** still in the Spiritual Realm. The key is realizing that as each *further level* is manifested in Tangibility, all previous levels still remain in Intangibility. That's why God never diminishes or changes. The Unity of All that begot Quadrality is Nonchange. Nothing created God. God is *the Source* for everything else. As General evolves to Specific, the Universe continues to manifest through its *further levels* all the various aspects of Procreation – every force and every particle – it will ever need. But none will ever change God.

Once the Big Bang has begun, energy floods in to form the tangible extremes of existence. Chaos reigns as the Universe begins to apply the **Rules of Quadrality** and the **Laws of Being and Existence** as Time and Space contract from Spiritual Infinity. By 5.39×10^{-44} seconds in its tangible frame of reference, the *1st level of Quadrality* in the Physical Realm is complete with Gravitation and the G.U.F. formalizing Spiritual, Physical, Positive, and Negative, as they permeate the Macrocosm and Microcosm with their thesis and antithesis. The potential for poles and charges become actual. And with the advent of Tangibility, **Q** wave and **Q** particle have bid adieu to the Universe they created. By about 10^{-10} seconds, the *2nd level of Quadrality* in the Physical Realm is complete with all four forces in Manifestation. Realize, though, that the Universe is still in a condition of Chaos, which may not have sufficiently resolved into Order for another 10-27 seconds. What this indicates to me is that during this entire time, the Universe was still working things out in Tangibility according to the *Law of Order*. And the fact that it took this long should be no surprise. Even today in the electric circuits that so well served our theory, charge doesn't build up instantly to its final equilibrium value when the power is turned on, nor does it immediately fall to zero when turned off. And the Universe began with a chaotic nuclear reaction the size of infinity! So, considering what was going on the true surprise is that Order happened at all.

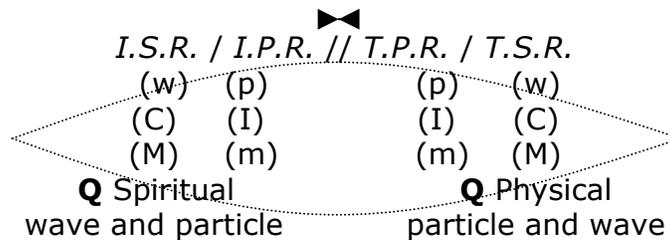
The *Transition Phase* involves the manifestation of Positive and Negative from Spiritual and Physical. The four together were the *State of Being* we called **Q**. It is this act, and the immense energy released in the process, that initiates the Big Bang. With it, Spiritual **Q** in the Physical Realm "polarizes" into Spiritual and Physical, the waves of Tangibility, and Physical **Q** "charges" into Positive and Negative, the particles of Tangibility. And as more and more forces and particles manifest, they do so in the context of more and more vibrations and waves. And this is especially important at the macrocosmic level, for it is the manifestation of waves as the sonic glue that allows macrocosmic structure to unfold in the Universe. But, regardless of which side of the *Transition Phase* you consider, it is **Q** wave that manifests first, with **Q** particle to follow. On the Physical side, wave polarization makes possible particle charging.

When we began our exploration of the **Theory of Harmonic Creation**, we drew an analogy to an electric circuit being driven by an enormous battery. We then endeavored to reference the cyclic and linear natures of the Root Realms to parallel and series circuits, a construct that has underscored various theoretical adaptations, right through the evolution of **Q**. However, our early treatment was meant as an introduction to allow us to understand the concepts and apply them to advance our study. And I promised at that time to delve further into the truths they could reveal. It is appropriate to do so now, to conclude our exegesis of **Harmonic Creation**. But

rather than make things more complicated, I actually feel we need to keep it simple, as Sir William would suggest, to really appreciate the *Truth within the Movement*.

The coupling of circuits and transfer of energy necessary to manifest **Q** in the Physical Realm and initiate the Big Bang, has been attributed to the property of resonance. Let us begin by clarifying that, as it applies specifically to electric circuits. "Resonance, in electric circuits, [is the] condition in a circuit in which the combined impedances of the capacity and the induction to alternating currents cancel each other out or reinforce each other to produce a minimum or maximum impedance." [Fred Landis, "Resonance (electronics)," Microsoft® Encarta® 98 Encyclopedia.] Impedance is a measure of the degree to which a circuit opposes the flow of current; and this will have the opposite effect on the two basic types of circuits, parallel and series – which is then reflected in our construct. Since Cyclic and Linear orders coexist for Creation, so must the circuits corresponding to them. This final review will tie *Wave Theory* and *Resonance* together with fundamental *Principles of Quadrality* to depict the birth of the Universe. Be aware, though, that as before, principles can have different applications dependent on their behavioral alignment, and some of these may seem contradictory. But also as before, the contradictions are only apparent, and I'll clarify the reason at the end. If you bear in mind the inherent spiritual nature of things and just keep track of the reversals, everything will work out fine.

Wave (w) represents the Spiritual Extremes of existence – its capacitance (C). It upholds the Macrocosmic principle (M). Particle (p) represents the Physical Means of existence – its inductance (I). It upholds the Microcosmic principle (m). Both wave and particle have intangible and tangible aspects. They then become the quadralitic realms. Since Separation precedes Interaction, first consider the *Linear Order*. The tangible quadralitic realms have been reversed, as on p. 426, to graphically depict the microcosmic particles on opposite sides of the Balancing Center. (The symbol follows the *Evolution convention*.) This is allowed since the *T.S.R.* and *T.P.R.* are concentric energetic states in the Root Physical Realm. It compares to **FORM #1** on p. 521:



This represents a series circuit and the separation of Root Realms across the Balancing Center. Thus, it is the Closed System and corresponds to the closed *First Harmonic* waveform of Sound. While the condition of separation is understood at the Balancing Center of the *Linear Order*, it is the antinode at the Balancing Center of the circuit, though apparently contradictory, that explains it. Once resonance occurs in this series circuit, maximum current will flow from the capacitance through the inductance as energy moves from the macrocosmic wave into the microcosmic particle in the Spiritual Realm. With Root Realms unconnected, this movement will induce a similar movement into the microcosmic particle of the Physical Realm. This will occur in the Horizontal, linear event-line. The antinode represents the maximum transfer of energy into the inductance from the nodes at the capacitance. "If an alternating voltage of the resonant frequency is applied to a circuit in which capacitance and inductance are connected in series, the impedance of the circuit drops to a minimum

provided by their duality. The open waveform of Light can reflect the interaction of Root Realms, and thus follow Sound (closed/open), and still be the linear movement that separates Extremes from Means, and thus precede Sound (open/closed).

A final word on resonance. In *physical* electric circuits, resonance occurs at specific frequencies based on Inductance and Capacitance. Others don't resonate. In *spiritual* circuits, resonant frequencies are infinite, and they're all being pumped into Tangible Unity, the *First Harmonic* of the Universe. To go from spiritual at the Big Bang to physical at Planck time, frequencies specialize until the Universe is left with *four fundamental frequencies of universal oscillation* corresponding to the four aspects of **Manifest Q** and reflective of *God's Holy Quadrality*. To bring Order from the Chaos, these fundamentals, through multiplication and division, create higher harmonics of themselves and lower fundamentals for which they are harmonics. By the time those four frequencies, which cover harmonic and non-harmonic systems, have evolved to the Four Forces through their four harmonics (p. 456), the Universe has everything it will ever need. All it will take is a change of key to adapt them to any orchestration!

So, there is more than one reason why this has been called the **Theory of Harmonic Creation**. We focused on transverse waves to generate the harmonic oscillations and resonant conditions necessary for the Big Bang. Now we must look to longitudinal waves to understand the phenomenon of structural development at the macrocosmic level. After the Big Bang, scientists assume there was a consistent medium. Thus, wave velocities are equal everywhere and the component waveform is unchanged. I mean, we know conditions of Chaos existed, and those included infinite sound – or noise. But whatever they may have been re sound, as well as for light and heat, they were consistent throughout the early Universe. And even noise, as complex a waveform as it is, can still be synthesized and analyzed in terms of simple harmonic waves. For, while noise is often thought of as a condition of distortion from an excess in amplitude, it can also be scientifically defined as a mixture of different frequencies within a given range. If velocity is consistent, even waves with different frequencies will result in waves that are harmonic in nature. And when these waves interfere in space after the Big Bang, their patterns of interference create structure simply from their repetitive nature – frequency and wavelength. **Physics Part 1** notes: "In practice, interference effects are obtained from wave trains that originate in the same source (or in sources having a fixed phase relationship to one another) but which follow different paths to the point of interference." [p. 481.] Interference from phase-related sources would clearly occur in this theory initially, since it is stipulating the condition of infinite microcosms. This would provide for a uniform structure in line with the uniformity of the *Quadralitic Grids*, the paradigm for the *Rules and Structure* of this *Blueprint for Creation*. But, interference through reflection and refraction from the same source would increase as matter continues to form and the likelihood of deflections and medium fluctuations increases. As this occurs, variations in the values for the *Triunity of Tangible Creation* over the vast expanse of the Universe will enable macrocosmic structures to form. And while the galaxies and their assorted celestial entities differentiate the parts of the Universe heterogeneously, scientists have found an extraordinary and almost divine-like degree of pattern and symmetry covering hundreds of thousands of light years in its homogeneous whole.