

Sequential Physics and Mystic Symbols

by
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A QUICK START PREFACE

If you are like me you don't really like long and or boring prefaces and introductions. This book intro stuff is probably not an exciting viable exception. So in the spirit of some late computer program instructions I offer this quick start preface.

There is really noting in the prologue, preface or introduction that is essential to evaluating this material accept for a reference to the Comparative Glossary. Know it is there as a reference for any italicized words or phrases.

This is a presentation of extremely radical ideas and concepts. They are so radical that they negate; particles in atoms, the big bang, the need for high energy particle exploration, light and gravity as uncompromising constants, the 2nd Law of Thermal Dynamics as the last word on entropy and indirectly that you and I are an evolution from an ape like primate species.

So my quick start instructions are to bypass all of this author's intro rhetoric and turn to the ninth page and go for the heart of this material.

The Author

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PROLOGUE

**For my son Andrew
and all others who may read this book**

"Individuals who break through by inventing a new paradigm are almost always either very young or very new to the field whose paradigm they change. These are the men who, being little committed by prior practice to the traditional rules of normal science, are particularly likely to see that those rules no longer define a playable game and to conceive another set that can replace them."

Thomas S. Kuhn in The Structure of Scientific Revolutions.

FOR THOSE WHO EULOGIZE PARADIGMS

So often people eulogize the paradigm. It might seem as if it is the stepping-stone to new knowledge, the collection of the most considered and most advanced ideas, the collective mind or the consciousness of science insights. Well, stop to consider this. The idea that the world was flat was a well worked paradigm. The theory that the earth was in the center of the universe was a paradigm that dominated science for a long time. The medical practice of bleeding was rooted in a paradigm. The idea that it was noble and humanly correct to keep slaves was based on a religious paradigm.

Paradigms do not represent any of the lofty ideas we have about them. A paradigm is actually a convention of what the cross section of science agrees on. The paradigm cannot embrace the cutting

edge and therefore it is the lowest common denominator for of how well thinkers understanding reality. It gives comfort to those who do not want to venture beyond the status quo.

So, remember when you read this treatment of quantum data, atomic particles as the basis of sub-molecular phenomenon is only the present paradigm. To go beyond that convention, you have to consider the data within another perspective of it. That is the natural step beyond the limits of any paradigm.

Thomas Samuel Kuhn in his 1962 book, *The Structure of Scientific Revolutions*, depicted the development of the basic natural sciences in an innovative way. Kuhn, proposed that the sciences do not uniformly progress strictly by the scientific method. Rather, there are two phases of scientific development. In the first phase, scientists work within a *paradigm* (set of accepted beliefs). The foundation of the paradigm naturally weakens and as a next phase new theories and scientific methods begin to replace it. A new paradigm then exists. Kuhn believed that scientific progress—that is, progress from one paradigm to another—has no logical reasoning.

At the onset of this little book you are venturing beyond the present paradigm. If you judge it based on what you think you know about reality you may just be lost in an old paradigm.

Rod Johnson

Introduction

The geometry vital to seeing physical reality through my sequential perspective was also vital to mystic thought through the ages. I want my reader to understand that though I am acknowledged in the field of metaphysics my sequential perspective was not drawn from any point in mysticism. Neither did I proceed from thoughts based on matrix geometry. My con-ceptioning process, in its own way, led me to the aspects of the geometry that could be applied and the geometry automatically fell into place.

Geometric definitions of hyper-dimensional concepts emerged around my thought images as if I were scrolling through some vast unfathomable library of intrinsic information. And, as you will see, the whole of the experience set me down in the middle of a most amazing connection to mystical symbols.

Well, my son and all other readers who follow, to truly understand the significance of the synchronistic alignment of mystical symbols with my sequential perspective you must follow the path of my discoveries. That following provides a graphic demonstration of how my hypothesis dropped me at the mystical door. I will share the direct advent of the experience but you have to consider my scientific model to truly appreciate what I eventually came upon.

However, in all fairness, if my treatment disturbs you within the limits of your own paradigm then you should go to chapters 3 and 4 to enjoy the amazing synchronicities that prompted this book. And, the contentment with which you enjoy your universe be done the less for wear.

The space matrix phase model came to final conclusions in my book on the sequential perspective.¹ The

¹ The Copernican Syndrome, Book I A Space Matrix Phase Model.

book now stands as a phase physics alternative to quantum mechanics. The material is a hyper-dimensional primer and an alternative model for quantum science assumptions that particles are the basis of quantum data.

Geometric axioms of the natural space matrix are the literal parameters of nature at the molecular level. They are the fundamental geometry of physical space and substance. They need no mathematical abstractions to fit data. Applying a phase hypothesis to existing data will very simply dissolve all of the quantum paradoxes and mysteries. Seeing the geometric application of the natural space matrix to quantum data heralds a quantum revolution.

The model asserts that matrix geometry lies at the root of answering long standing questions that arrived with quantum exploration. It also provides a basis for seeing how a quantum potential between universes is the simple source for all that there is.

If that seems unreal to you it might just indicate a limiting state of your paradigm. Thomas Kuhn pointed out that the brain rejects information that does not fit within the personal paradigm. It literally cannot register what consciousness perceives. Then as a catch 22 the brain cannot establish viable concepts without the necessary information.

My purpose in this writing is to establish a synopsis view of my Sequential Hypothesis. Just enough information for you to understand the basis of the dynamical system I developed. Hence, I have presented only the bare necessities to that end. Geometric specifics, math equations or technical proofs are not offered.

So my son, you once handed me a very expensive college grad textbook, *An Introduction to Elementary Particles* by Professor David Griffiths of Reed College. You did so with the note "Know thy enemy." It's a wonderful reference book. I wrote a commentary on Professor Griffiths's *History of Elementary Particles*. The sequential comparisons were like conceptually fitting the manicured hand of quantum science into a finely tailored sequential glove. Never once was I lost for simple and expository explanations in sequential terms for quantum speculations. If you or subsequent readers are beckoned further by this short synopsis of my concepts, you will find that commentary in the first section of my second book, *The Copernican Syndrome, Book II, A Hyper-Dimensional Mechanics*.

So now, my son Andrew, while you gather new vistas of physics at a prestigious University, remember when you once voiced the opinion that science is a long way from accepting a phase alternative to quantum particles. I instinctively felt that modern physics is very close though lost in their limiting paradigm. "...a long way from..." will dissolve in a series of discoveries that are explored in the third book of my Copernican Syndrome series, *Sips from the Holy Grail of Science*. I am certain that very disturbing data arriving in late experiments will eat at the collective mind of quantum science until they are on the right track.

Papa Rod

PREFACE AND GLOSSARY

A Preface

For all other readers: In the years of his growing my youngest son Andrew was subjected to my ideas about the meaning to life the universe and everything. Of course my insights on metaphysics were often shared with him. He was born with a scientific disposition and a brain that could follow the higher disciplines required. In that following he pursued the disciplines of physics.

This little book came into being as a letter to Andrew for his 27th birthday. At the time of its first writing he was completing his post grad work in Meteorological Plasma Physics at the University of Washington. Perhaps, I thought, its message will be more real to him down the way of thoughts matured by experience and time.

Yet, in this presentation, it is my fondest hope to inspire openness to wider vistas of thought and perception in all young people. This, my fondest hope, is especially for the minds of those who will be the scientists of tomorrow.

Perhaps I am seen as being in a joust with windmills. "Radical!" they will say. Well, I have clearly seen these ideas and have worked with them for over twenty years. The fundamental concepts were in place by 1986. And now, at this point in my life I desire to plant what I feel are important ideas in minds open to alternatives.

I write this book as a matter of record and as a synopsis of my greater books. Down the way past my horizon you, Dear reader, can be the final judge. If my ideas are correct then you will be on

the cutting edge without definitely knowing that right now.

The experience that inspired this book flowed into a most profound set of synchronicities. It will be easy for you to appreciate the synchronistic beauty of the dynamical system. This sketch view of my sequential perspective will simply provide a deeper view of what that synchronicity is all about. Therefore, I now share this synopsis of my concepts and experiences that flow in greater detail in my books and models.

Though this was originally written for my son Andrew I will in my sage-hood address who ever else reads this as “Dear reader”. And, Dear Reader, you may be an old science hand or a curious young mind or perhaps both. In any event, if you do not have the gumption for straddling new concepts within your mind you will not enjoy reading this. Further, if you happen believe that the prevailing quantum particle model will evolve into a TOE then you should know, the trends of science history are against you.

Rod Johnson

AN INTRODUCTION TO A COMPARATIVE GLOSSARY

This is an overview of a very new and different perspective of data. The problem with understanding any radical material is generally one of vernacular. The flow of needed words and their usage is not always part of the present paradigm.² One must become use to terms describing more comprehensive ideas that have not yet become part of the whole. They also must be able to see the leap in comprehension beyond the more ingrained set of terms.

There are many examples of how limiting terms follow limited concepts. For instance, quantum science moves ever closer to the insight that the answers lie at thresholds of multi-dimensions. They have seen that somehow quantum force and energy has to arrive at discrete levels of symmetrical order and exchanges. To see this they need a geometry that will define higher and multi dimensions. The present quantum model of inertial mass particles does not apply well to those aspects of questions about data.

Quantum scientists of course are paradigm bound. Hence, they are bound within terms that express their collective mind. Within that bound-ness they must explain the questions around their discoveries in

² Author’s note: Three conceptual barriers in the mind of science arise with the human disposition. They have precluded the discovery of the grand unified field theory. They have been a lasting part of our thinking for eons and will be addressed in turn as author’s notes throughout this synopsis. Paradigm is one of them. It means general acceptance. A better term is *conventional thought*. As long as science generally accepts a convention of theory they are unable to collectively challenge it. That is why the real new stuff of scientific revolution is the work of small groups or individuals.

ways that their inertial mass particles can somewhat conform to. But, the needs of the model are not satisfied even in the ways of an amorphous particle. The data indicates that whatever is responsible for the phenomena must define both wave like and particle like characteristics. So, a strange wave abstraction had to be added to the particle. The data indicates that whatever is there in the experimental environment are not always present. To preserve the particle fixation they are reduced to a virtual status. The data indicates that somehow there is the need for connectedness. Toward this vent particles are abstractly seen to contain strings that match the discrete requirements needed. Data indicates that at discrete levels there is order rather than just randomness. Hence, to preserve particle logic the particles must be able to experience “actions at a distance.”

Yet, as quantum scientists draw closer to the realization that the root of their data exists in inter-dimensions, they are unable to see an orderly inter-phase field between dimensions. Instead they apply abstracts that satisfy particle logic. “Wormholes” provide a space for their particles to worm through and quantum foam or quantum turbulence are amorphous mediums that though not definable give mass particles in proximities a place to fit. A “dimensional rift” will descriptively get particles around singularity but not really. “Portals” will serve as openings for particle interactions between universes but if they exist they actually appear to be more discrete than the particles that need to move through them.

Between any two different models there needs must be a conflict in terms. The more correct the model the more succinct the terms. The sequential terms are not chosen to indicate possibilities or general descriptions. Each term is pertinent to a point of hypothesis. Each term is mathematically consistent. Hence term chosen is considered as scientifically succinct as it can possibly be. Some terms are common terms and some of those have uncommon refinements applied to them.

I am always concerned in my writing with keeping a blend of terms between the vernaculars of Quantumish and Sequentialese. For that reason I offer this Comparative glossary. It will not only define general terms that apply in either model case but will compare the two approaches and sometimes analyze the logic that the terms are suppose to describe.

A COMPARATIVE GLOSSARY

A real space field: When considering alter possibilities of how physical realities can be dimensionally interspersed we will refer to the aspects of reality that we can perceive as “real”.

Applied add hock abstractions: Aspects of theory wherein theorizers apply concepts that explain obvious contradiction but have no bases in reality outside of the theorization. Examples are mass particles that move in wavical orbits, change orbits without explainable cause, exist in close proximity movements that lack a real physical logic and periodically disappear. Another example is applying parameters believed descriptive of real. space properties. However, those parameters are based on cubical logic that cannot be exemplified in natural physical reality.

The Sequential Hypothesis claims that a specific geometry perfectly provides every circumstance of its premises without the need of add hock abstractions.

Atomic center force: Unexplainable strong forces that bind the inner quantum constituents of molecules into cohesive matter. Quantum science sees this binding force within complexities of nuclei wherein the actual force is not understood.

The Sequential Hypothesis shows how these forces can be completely defined through principles of inter-phase and totally quantified through the application of a finite geometry.

Axioms: Self-delineating features of any system or method, such as found in definable geometric relationships, which are finitely irreducible.

Charge symmetry: The polar arrangement of all field potentials. Modern physics cannot yet model

the source for how and why these field properties exist.

Sequential physics explains the source and how of these properties in ways that illuminate basic EM theory.

Chemical periodicity and valance: The arrangement of chemical elements based on repeating cycles of electrostatic charge as measured at the molecular threshold. The Sequential phase logic produces an obvious solution to the source and nature of valance.

“conservative”: An applied assumption that force energy actions are automatically conserved within the laws of the universal conservation of force and energy.

Consistent applied model: A model that can explain theoretical questions within the axioms of its own premises. Such model explanations must also be consistent with all natural phenomena. This is in contrast to abstracted concepts that are inconsistent with reality outside of the model. Many excellent examples exist in the quantum model logic. Most ubiquitous is the common assumption that Cartesian coordinates model real space. Square and cubical parameters are pure math abstraction of space and are not a consistent property of real natural space.

Electric inter-phase: When put in this terminology the functions of enter-phase imply that the seat of magnetic forces lies in a static electric condition. The condition cannot be delineated as a whole. The electric inter-phase can only be seen as moment to moment potential between universes rather than just EM actions within real space.

The Sequential Hypothesis sees the natural forces as each being a complexity of that natural and fundamental condition which it defines as quantum potential. At the level of moment inter-phase the condition is static-electric as the proto condition for the forces of real matter and space.

Electro-static or magneto-static: Electric-magnetic field relationships at a theoretical point of not yet action. In this treatment they are referred to as field potentials.

Existual: A word derived to express special cases introduced by the Sequential Hypothesis. Its basic meaning is; you cannot have one existence without another.

Fine structure constant: The Fine Structure Constant is a $1/1.372$ force ratio that exists between all electric-magnetic fields as measured by quantum science. Presently it is seen as the ratio between the electron (electric) field and photon (magnetic) field coupling. The Sequential Perspective sees the Fine Structure constant as a ratio between electric and magnetic fields in terms of their matrix orientations.

Hyper-multi-dimensions: The idea that parameters of real perceptible space can be extended beyond just three dimensions. The Sequential Perspective is in its very nature an applied hyper-dimensional mechanics.

Hyper-dimensional inter-phase: A condition that is sub (sans) time. Time is an abstract that applies only within a 3-space context. The equations of hyper-dimensional mechanics for sequential physics do not involve time.

Inter-phase function: The geometric fundamental for the Sequential Hypothesis provide functional definitions for how force energy patterns in one universe are symmetrically connected to patterns in another universe. Quantum logic has not yet arrived at succinct inter-phase concepts for multi-dimensions.

Maxwell’s geometry: The geometric concepts with which James Clerk Maxwell described the experimental data derived by Michael Faraday in the latter years of the 19th century. Those concepts are acknowledged within modern physics as electromagnetic theory.

Moment; A succinct scientific term. As applied within the sequential hypothesis, “moment” is a term that conveys a specific reference to points where force-energy transitions occur between universes. Its specific meanings directly apply to the properties that would exist for points of a hyper-dimensional inter-phase. 1) The smallest mathematical increment, 2) forces perpendicular to a common point, and 3) points of transitions of force and energy. They all apply accept 4) a short duration of time.

moment center functions: The geometry at the zero-point inter-phase which is always perpendicular fields in 90 and 180degree phase transitions.

Moment inter-phase: A theoretical aspect of sequential physics that geometrically defines how forces and energies of our apparent universe can interact with other universes.

Natural pulse: Pulse, in its simplicity, is a variation of magnitude. We create the pulsed effect by switching on and off or we create an impulse by increasing magnitude over some short interval of time. However, within the vastness of outer and/or inner spaces we detect pulse and impulse within the natural orders of reality. Some examples of natural pulse are; Planck's constant infers that all energy radiations are in sustained cascades of impulse that he termed as quantum. Cosmic radiation and activities distant pulsars manifest pulse characteristics. Radio active elements manifest in pulse characteristics.

Phasors: Vector functions that incur cyclic movement.

Potential: The function of force and/or energy over distance.

Potential Barrier: The region of a field of force in which the potential is such that a composite charge (ion charge entity), which is subject to the field, encounters opposition to its passage.

Wave particle duality: Experimental data indicates both wave and/or particle phenomena for radio active emanations from the quantum levels of matter. Quantum particle theorists, have so far, been unable to conceive or determine a root cause that would demonstrate both or either condition. Hence, within limitations of their paradigm an add hock philosophy has been offered that eulogizes the wave and particle phenomena as a natural duality of a single mass object. This philosophy also supports an abstraction that attempts to explain the problem of electron particles eventually being attracted to the center force. Within its duality the electron can move about the nucleon in wavical orbits.

Singularity: A mathematical term that distinguishes a point where transitions are no longer mathematically unexplainable. This applies to the point cancellation or annihilation of charge potential occur.

Quantum motion. A theoretical assumption on data, at the quantum level, that moving inertial mass particles can fully explain electromagnetic cascade and variations inside of molecules.

Unified field theory: A sought after theory that can explain the four natural forces, weak, strong, magnetic and gravity, within a single context of force using consistently applied mathematics.

Varied nucleon masses: Data derived from high-energy disassociations of matter that indicate, at the quantum level, certain phase states of micro matter have greater mass than other phase states of micro matter.

Vectors: Geometric line definitions of angle and/or magnitude of energies or forces.

Weak force, strong force ratio: Quantum measurements show that weak-strong force interactions have a force ratio that is slightly less than 1 to 100 respectively.

SECTION 1 THE SEQUENTIAL PERSPECTIVE

As an interesting note; Three high scientists, Max Planck, Albert Einstein and Erwin Schrodinger contributed the greatest equations and concepts to quantum science. Throughout their illustrious lives they never accepted the idea that particles were the basis of atoms in molecular matter.

The search for a unified field theory

One could say that modern physics was fully established as a science with the application of Maxwell and Faraday's electromagnetic theory. Through the decades, that followed their mammoth accomplishment, physical science began a deep search. The search was for an extension of Maxwell's geometry that would theoretically provide the same definitive ordering of field force data derived from atomic, magnetic and gravity measurements.

Such was the birth of the zeal to find the unifying factor, the unified field theory (UFT). The quest for a UFT has risen under many terms. The Grand Unified field Theory, (GUT) The Holy Grail of science, the answer to life the universe and everything and now most generally a Theory Of Everything (TOE).

Albert Einstein became one of the first main champions to rise to the task. Since then offerings and claims of both high science and lay science have become stacked to the ceilings. You my son will inherit through your own work what comes of this search. You my Dear Reader, might also be one of those who acclaim or aspire to that great discovery, or perhaps you stand with the many enthusiasts on the side line

of wanting to vicariously experience that ultimate discovery by science.

This small book will stand as a challenging guide for those looking for a theory of Everything (TOE). Further it will provide an acid test for anyone who believes that they have developed a fully comprehensive TOE.

A unification of the natural fields of force is what this is all about. These forces are considered to be the weak, strong, the magnetic forces and gravity.

But, no matter how much we have hoped that the answer is right around the corner, from the next discovery, more questions have arrived than have been answered. From Super Force to quarks and strings, yet we cannot say for sure that we are near the end of our search. I ask you, Dear Reader, could you recognize a truly *unified field theory* if you saw one.

There are special requirements that a serious science reader should be aware of in order to say, “yes, that must be it!” So, let’s look at those requirements.

The first requirement is a consistent geometry. The math to be applied must be a direct and consistent extension of *Maxell’s geometry*. That extension must provide an understanding of the weak-strong, magnetic and gravity forces, and carry them to absolute conclusions.

The natural forces, in and of themselves, are already naturally unified. We have just not quite understood the geometry inherent within their unified existence. In other words, when we grasp the basics of the natural geometry for natural forces, we will see that its basic axioms have always been very apparent in the data.

Understanding functions of multi-dimension is the second requirement. There are several new models that hope for unification and they all fail to unravel the mysteries that imply *hyper-multi-dimensions*. For instance the strong *atomic center force* indicates that the basis for its existence must be beyond what we call 3D physicality. Yes, other places and other times in other universes. This criteria for multi dimensions is so very important that it would be a waste of our time to examine proposals that fall within closed systems in the context of a single universe.

As a third requirement, a unifying theory must provide an alternative to the idea of inertial mass particles.

If the answer lies in *hyper-dimensional concepts* then particles in atoms were the wrong assumption to go forward on in the first place. Hyper-dimensions are bound mathematically within perpendicular symmetries between separate states of reality. Steven Hawking said that the only problem he had with hyper-dimensions was that “particles had trouble making those sharp right turns.” In that statement Physicist Hawking was trapped in his own paradigm. Assuming that particles were the only possibility he could not reason within an alternative that would not support the theoretical convention of particles in atoms. A strong belief in a given theory contradicts the spirit of theory. That spirit is a search for alternatives.

My stand is, ideas that are bound within the particle model have already disqualified themselves as the answer to the unification of natural forces. However, bare-in-mind, if a theory has departed from the particle model then it must demonstrate how matter and space are stabilized at the sub-molecular level.

The fourth requirement is a comprehensive explanation that finally settles the *wave particle duality*. Wave/particles are the dualism of the data. The data seems like particles in motion but also acts like waves.

Neither waves nor particles solve all of the questions about the data. Waves are as noncompliant to pure logic as are particles. Seeing wave data and particle data in quantum experiments automatically signals the mind that a more intrinsic condition must exist that can manifest each phenomenon. You might call it a logical cop-out to interpret data based on thinking rather than to think based on data. The

coin can have either heads or tails. Neither heads nor tails is actually the coin but rather a manifestation of its condition. So what conditions has particle/wave characteristics.

So Dear Reader, Even if a unified field theory provides what might seem to be a reasonable explanation for the natural forces, in addition it must definitively demonstrate an explanation for prevailing science mysteries. Those mysteries have either arrived with data or have been hanging out in the twilight of our logic for centuries. Can you imagine a theory of every thing that would miss something that important? I list here what I believe to be the most pertinent of those mysteries.

- 1) What condition specifies *charge symmetry and potential*?
- 2) We detect *quantum motion*, but what is it, wave, particle or what?
- 3) What are the basics behind *singularity*?
- 4) *Chemical periodicity and valance* exist but science does not know why.
- 5) The *fine structure constant* ratio has been measured but is not yet understood.
- 6) The *weak force, strong force ratio* and *varied nucleon masses* exist, but why?
- 7) What conditions are responsible for gravity and magnetism?

There is one more requirement. The approach to solutions must be part and parcel with truly unifying concepts. Hence, they will all fall into a *consistent applied model*. A correct model of physicality, based on a consistent geometry, will be able to explain all of the mysteries. But as **a final requirement** it will do so in a continuing demonstration of self-delineating-characteristic of the model rather than *applied add hock abstractions*. That means, every explanation must evolve smoothly from the foundation premises of the theory. Once an aspect of the hypothesis is introduced all conclusions on data will fall into place without the need of abstractions or dualities.

Section 2 THE SEQUENTIAL PERSPECTIVE A RADICAL ALTERNATIVE IS THE ONLY SOLUTION

If a theory has departed from the particle model then it must demonstrate how matter and space are stabilized at the sub-molecular level.

The quantum particle model was born within the idea that the Newtonian order of planetary stability in solar systems must be the answer to why matter and space endure. That one convention has kept a struggling quantum particle model alive for almost a hundred years. Yet, that one convention of belief has so far failed every test of its application as the correct picture.

The only thing we really know about the evidence that makes science assume that particles are in molecules is our view of high-energy data. We see emanations that appear to stream from collisions in electro-dynamic environments or radiate from radioactive sources. These emanations leave lines, point and wave patterns in detection mediums such as smoke and bubble chambers and on sensitive films. They appear particle like when passing through singular openings but produce wave interference patterns when passing through multiple openings.

Quantum science philosophically assigns all of this high-energy data to an all-in-one mysterious essence of everything called particles that can also be seen as waves. Yet the hard core of their logic cannot show how the waves can actually become particles or visa-versa. They can see how mass can have fields but not how fields can have mass.

Seeing detection points on a sensitive target as particles comes from our macro experience applied

to something that is much more subtle. Then to say that the same emanation which produces lines and points on a target can interfere with itself, as wave patterns on that target, is a bit confusing.

We will take an entirely different approach. Our search will unveil a new perspective of electromagnetic phenomenon that can perfectly satisfy quantum data. No abstractions will be needed! We will not beg the question, is it wave or particle? We will simply say “At the deepest level of physicality it is **neither!**”

So my son and all Dear Readers, keep in mind that the “neither” has to involve a radical departure from the present ordered game of science. Don’t expect what you presently think about the quantum model or the math that attempts to manipulate it to be of any great value in comprehending this material.

EM pulse will be the eventual realization of our search. We will say as a premise, every aspect of matter within molecules is a function of pulse. To implement that statement we will look at two characteristics of EM pulse.³

One, we see pulse, as a particle like point or as lines every time we sit in front of a computer monitor. Digital phenomenon is an ordered complexity of pulsed streams detected on a screen medium.

Two, we experience pulses as waves every time we listen to music, watch TV, dial a telephone number or talk on that phone. Even direct current is a pulse function but at an extremely high frequency.

If anybody can show me a single action, in micro reality that does not involve pulse I will forsake my sequential perspective. But, how does EM pulse provide universal stability for all of space and matter within it?

Can we arrive at the simplest possible moment within a smallest possible space? Can you imagine singling out a specific point of finite function from the infinite universally wide functions? If you can, let’s look at that specific point as a moment of electric-magnetic transition somewhere down inside at the most primary level of space. I mean even more primary than photons. And, let us say that our moment is the essence of whatever a photon might be.

This moment, that we are considering, is a technical moment rather than a short increment of time. It is a point whereat forces act in perpendicular orientations. It will help us to understand the concept of a finite point among infinite points where functions between universes exist. This moment point is based on a premise that functional points in a given universe cannot exist without a symmetry of their functions existing in another universe.

If you cannot accept the possibility of interactions between universes then you are wasting your time reading here. Indeed, the absolute secret that is lacking in the science knowledge for a TOE is the comprehension of how parallel universes can interact.

Potential is the deeper perception of how forces and energies flow. Each infinite moment between universes is **potential**. Potential is a function of force over distance. Also potential can be measured in terms of difference in magnitudes of force which are always some function of work over distance.

In this perspective we are concerned with the *electro-static* or *magneto-static* field potential as attractive or repulsive charge points. These fields of are “*conservative*”, and their potential is only a function at a point. That point is a finite moment in a given universe and its potential is a function of some discrepancy, a dimensional difference, between universes.

A refined definition for potential, within the sequential perspective, is a dimensional difference between conserved points of charge symmetry.

A simple case for potential, as the fundamental source for “all that there is”, can go like this. You cannot

³ To understand something so simple as pulse requires extensive reading. The subject is well covered in my books. But, a good reference is, A Journey Through Gravity and Space Time by Professor John A Wheeler of Princeton.

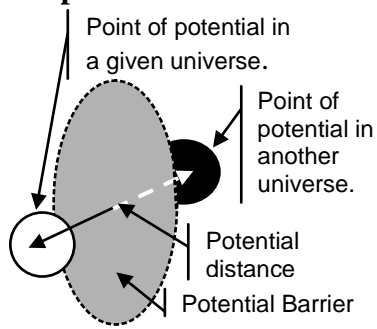
find a single finite moment in this universe where there is no electro-static or magneto-static potential (EM Potential). Every piece of high energy data is a technical view of EM Potential. Every phenomenon, thought it may look like an elemental particle, is an actual measured view of EM Potential.

As an opinion on data, science tends to think of EM Potential as the a subset product of mass and space. In that opinion science maintains that EM Potehtial cannot exist without the presents of matter mass. Photon (light) just barely qualifies as mass particles. Yet, based on the facts of research, we can reliable say that every real aspect of space or matter in space can be seen as define by a function of EM Potential. If that is so then both matter and space can be seen as a direct results of potential rather than the other way around. The problem is showing what is the proto nature of potential as the source for “all that there is”.

Let us now refer to “potential” with a term we will often use here, Electric-Magnetic Potential or E-M Potential. This E-M will disdinguish our view here as a refined extention of Classic EM theory. Its distinction lies in a 4th dimensional view. In this view the 4th dimension is not time but rather an *inter-phase function* for EM cascade between sepatate universes as well as within them.

E-M Potential is all that there is. That is the hypothetical stand of the Sequential Perspective. All of the tangible illusions of our perceptions are made up of complex relationships of E-M potential. But, what condition between universes prescribes this all pervasive potential?

If potential is a function of distance or difference in forces and each moment is a function of potential, then some natural moment-to-moment discrepancy must exist between parallel universes.⁴ So, we will use the term “coalesced” to indicate this slight discrepancy in these moment-to-moment possibilities of connective conditions between universes.

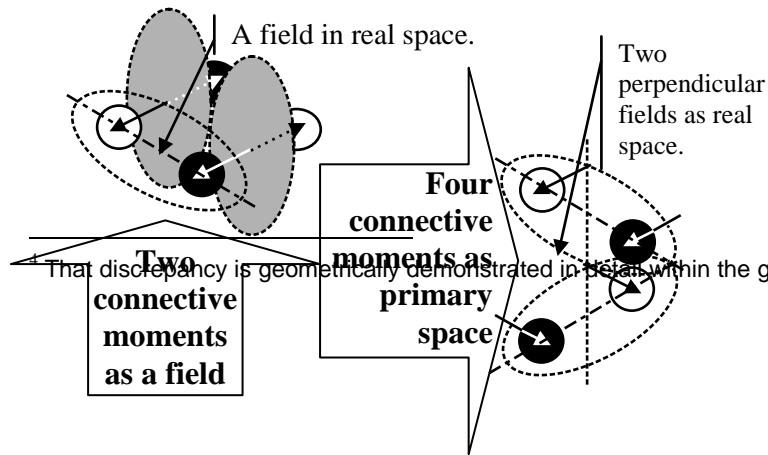


This moment of potential that we have been considering is now seen to the left in an isometric view so we can see two coalesced universes at a single moment between them. This picture, of a finite part of infinite moments between..., has been the single most evasive concept for understanding how the sub-molecular micro-reality functions.

Potentials are the standard aspect of all electrodynamics. However, being able to see the multi-dimensional interactions of moments between..., based on potentials, will stand as a test of your ability to think beyond your prevailing paradigm. If you can bare with me here, for the sake of exploring new concepts, we will take this picture a few steps further. In those steps we will see how a context of force, as potentials, can be seen as fields in forms of space and matter in space.

Matter-space stability, sans inertial properties of particles, can now be explained. The factor that stabilizes space and matter within space lies between universes, determined by natural geometric relationships within each universe.

So my son and all dear readers, the ideas presented here are fundamental to a finite geometry. We will explore the concepts that are manifest within the geometry but not the geometry itself. All the technical elements of the math are contained in my further writings. For now we just have to understand the “moment”.



Axioms of moments: 1) All moments are connective as E-M fields. 2) Two moments of potential are a polar field. 3) Four moments of potential are a vector space field structure. And, we will soon see how that structure is the fundamental basis for all that there is.

Here, we focus on finite fields resulting from infinite connective moments. This focus brings us to the most obvious possibilities for the most fundamental principles. What is needed is to understand how they fit into the whole of quantum data. How can potentials between... be Realized as E-M Pulse within...? How can moments in perpendicular relationships become the building blocks of all that there is?

The answers lie within known principles and are subtly already prescribed in classic EM theory. But first we must look at a little more of the alternative picture.

In review, every moment potential is an electrostatic field between universes. Every dipolar relationship of moment potentials, in a given universe, is a magneto-static space field that for the sake of this perspective we can call it “*a real space field.*” That is to say, “the part of the picture which we can perceive.”

Real space fields are always perpendicular EM photon structures of real space. Yet within this point of view every potential of the real space field has a symmetry to electro-static fields within the real space of another universe. This electrostatic symmetry by its very nature defines a *potential barrier*. In other words, each pole of the real field is bound in symmetry to a connective electrostatic field in another universe. This connective symmetry provides the properties of conserved equilibrium of forces. Potentials A and B, though attractive within..., are each connectively bound to B_1 and A_1 between.... Any differentiation of this order in a given universe will still be conserved between them and this is so in every connective corner of homogeneous isotropic space.

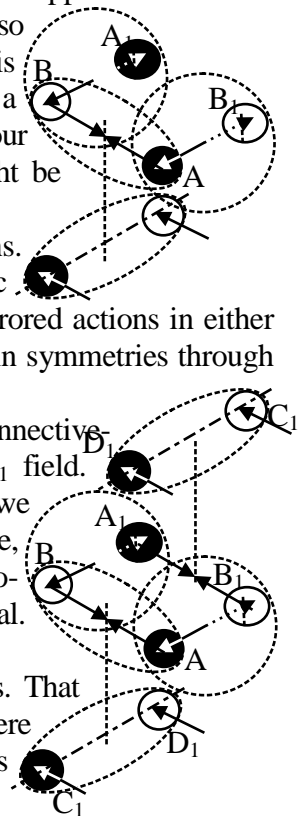
All of these polar restraints, within their multi-dimensional refinements, preclude potentials from canceling interactions. Hence, their homogeneous states are maintained within bounds that conform to a natural geometry. To maintain balance, they must exist within that geometry. However, when that geometric state becomes imbalanced, in our perceivable space, what we see as annihilation and/or cancellation in points of singularity is the restructuring of the hyper-dimensional order between spaces. That understanding brings us very close to explaining singularity, but not quite yet.

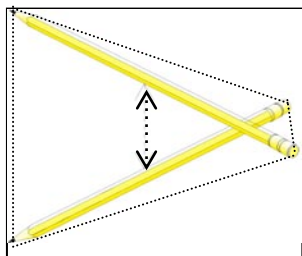
The connective property, seen within this model, is a very natural consequence of its apparent order. Just as all moment potential is connective fields, between and in universes, they are also connective throughout the multi-dimensional whole. This connective whole is correctly realized as an inter-phase within and between universes. This inter-phase is a natural matrix of the existent geometric order. Hence, quantum phenomenon is our actual perception of a hyper-dimensional inter-phase. What we think moves might be analogous to landing lights down the runway.

Inter-phase connective-ness connotes the dynamics of real space field interactions. These interactions are in natural perpendicular EM relationship to a static electric matrix. The static electric matrix is a connective portal between universes for mirrored actions in either one. This simply means that magnetic actions in an apparent universe are always in symmetries through static electric connective-ness with magnetic actions in a non-apparent universe.

For instance, just as field A-B are perpendicular to field C-D, A_1 , in field connective-ness with B_1 , are in a connective perpendicular field relationship with a C_1 - D_1 field. Hence, through inter-phase principles all of the potentials are connective. Soon we will see how these electro-dynamic interactions exist as the basis for quantum space, motion and matter mass. For now what we have to have in mind is that all of the so-called quantum particles are illusions of what is much more subtle and fundamental. But what does this more “subtle and fundamental” condition bring us to?

The first principle of space is that **general space** is isotropic and homogeneous. That means completely *conserved*, in balanced equilibrium and everywhere the same. There is a single field-dynamic that satisfies all of those properties of space. That dynamic is





two perpendicular fields having their pole potentials equidistance apart, that dynamic configuration is tetrahedral. A picture of that dynamic can be seen using two pencils as viewed to the left. This tetrahedral configuration is the absolute most finite definition of space. If cosmic order manifests through the infinite moments between its many universes then it would do so with the most finite possibility. The sequential perspective embraces that view and all of its finite implications.

The Princeton grad mathematician, Author M Young labeled this tetrahedral field dynamic **the first principle of spatial physicality**. The proper term for the form created by this field configuration is “tetrahedron”. As the fundamental form for real space this first principle prescribes that all balanced space field potentials will be bound within that specific geometric relationship.

Through these realizations we see the fundamental principle that sets forth the actual primary arrangement of what might be called *moment inter-phase*. In other words tetrahedral fields are the simplest geometric possibility for three-dimensional systems. In that possibility they also automatically exist as the connective fundamental between dimensional systems. The most pleasing aspect of these existent fundamentals comes in knowing that they are an extended property of the natural field geometry. They do not have to be rationalized or abstracted to apply.

Well Andrew, and the brave readers who have followed their curiosity this far, if this is hard to fathom it is because you have never had an idea like this in your head before. So, before you lose enthusiasm, consider this. The knowledge that you now act on has two limitations. First, it is exclusively limited to the macro experience. Science sees what people think they see. However, they do not actually see particles, they only think them. Second, there is nothing in what you have already learned about the micro reality from which you can extend your reasoning into these concepts. This model is so vastly different that it may require a conceptual grasping that you are simply not prepared for. You have to reverse your standing reasoning and see that fields are not an extended simplicity of mass. Rather, tangible mass is a close-knit complexity of fields.

The only real fundamentals you have to reason with here are those that have arrived from data on potential and fields. When you look at the common tracks, believed to be particles moving, look a bit deeper. Realize the obvious foundations of them. See them as progressively connective potentials that produce chemical reactions, reaction to reaction, as connective moments of fields. Then take the leap of understanding that those moment reactions are connected between universes rather than just within them.

Just as potentials prescribe fields, likewise fields prescribe circuits. But if you go beyond those basics you must see that just as circuits can be followed within a known spatial context they are connected in and to spaces that define other universes.

Maybe this explanation is too simplistic to comprehend its implication. The implication being, that an inter-phase of connective natural electro-static and magneto-static fields gives order to all balanced forces. This order is a quantifiable aspect of a specific geometry. At the instant the balance is disturbed, E-M and or radioactive dynamics result. These E-M dynamics are imbalanced forces, in a pulse format. They achieve equilibrium through a multi-dimensional inter-phase process. When the geometry of that process is understood all that seems complex and difficult to understand in this treatment can come to a perfect and comprehensive confluence.

So, you might have already asked, how does *natural pulse* come into being? A better and more basic question is, what is natural pulse? Having in your mind the nature of connective circuits you have the fundamentals of pulse. So prepare yourself for a new view of pulse.

“Pulse is a kink in force lines emanating from a moving charge,” so says Professor John Archibald Wheeler of Princeton. An electric charge must move. In the intervening change of the movement force

lines emanating from the charge center, at one position, technically must interfere with force lines emanating from the new position. This interference literally kinks the force lines changing their intensity from one moment of charge to the next. What we perceive as pulse is the emergence of force line vortices from the conduit (Circuit) of charge field motion.

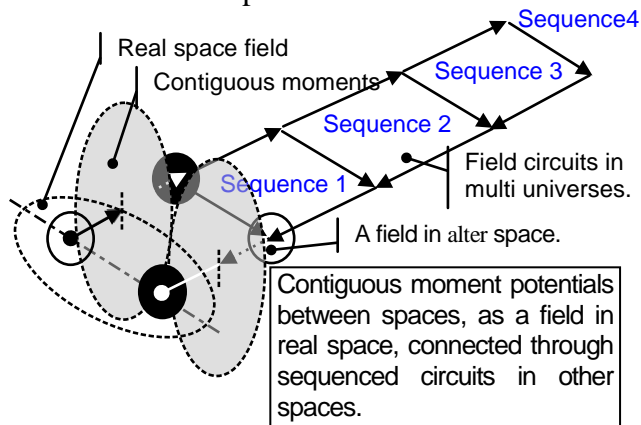
When we see the most finite disposition of potential in infinite circuits of finite transitions between universes, we see the above definition of pulse in action. The definition applies to potential difference between... as well as within....

Our comprehension must be able to see at the ultra small size (10^{-32}) of our moment pulse as varying circuits of inter-phase. And, these variations in circuits follow sequences of intensity in patterns prescribed within their own natural geometry. Hence, the comprehension of a moment pulse not only simplifies the assumptions of Professor Wheeler about pulse as a “kink”, but also gives us a wonderful motel for understanding quantum motion.

Quantum motion is an illusion of pulse sequence manifest as loci of pulse points across the inter-phase. Phenomenon of macro motion is existent above photon dimensions. At the subtle finite level, smaller than 10^{-32} there is no motion, there is only emergence of potential in pulse sequences. The sequences are circuit orders within the geometry of connective circuits between multi-universes. Technically the sequences are manifesting as points of EM transitions we now define as singularity. There is no singularity, there is only inter-phase.

Within our scientific experience what we detect as moving electrons and cascading EM fields is the loci of many pulsed points of energy, each as a moment of inter-phase. But, what about the response that so called particles have to over-riding magnetic fields? When the motion illusion curves into over-riding magnetic fields we need to see that moment forces become progressively closer as they approach the flux density of the magnetic mass. Once more the picture is compared to seeing landing lights down a runway, but within this perspective, the lights get closer and closer to the airport terminal.

Circuits are the natural consequence of pulses. When we extend our comprehension of pulses we see multi-fields operate in circuits. The circuits are the contiguous factor for moments. As EM fields cascade



in the dimensions of our awareness, within our universe, their transitions in singularity are actually between universes. The infinite possibilities of those transitions are the inter-phase between other spaces. This factor of inter-phase constitutes infinite variations of circuits.

These variations are the grist and mill of order and chaos. These variations are the essence of the hidden variations needed for the quantum phenomenon. In the final analysis moment pulses are the finite force/energy of space and matter and their connective circuits hold the key to the orders for their existence. The observed nature of pulses and the intuited understanding of their electro-dynamics provide

real space stability having field complexities of matter and isotropic orders of space.

On the particle side of the argument is the beauty of reasoning variations within the proximities of gyrating bits of mass. That satisfies our gross experience in macro reality but does little to reveal the nature of the subtle reality and/or its mysteries. Subtle fields are the absolute grist and mill of quantum data. When they react to overriding magnetic fields we get tripped on our gross experience “looks like they are masses” rather than thinking with a pure subtle field approach. Our obsession with proximities in chaos literally saves us from the need to see specifics and instead the common science mind moves on abstractions.

Looking towards point pulse moments and their infinitely resultant fields we can find concepts that are

actually far more succinct explanations of experiments than those of quantum science. Also we find the numbers and the relationships needed to define the many variations in quantum data. For instance as the geometry develops we will see that crystalline orders are direct empirical evidence of the hypothesis. There is no need to justify them with sketchy proximities. Also the geometry applied to magnetic phenomenon is the perfect model for every property of magnetism. In fact were there no empirical data on magnetic characteristics the model can literally predict everything that we know about magnetism. In a deeper study of the material we could find a basis for predictive projections of every chemical property.

These are bold claims that the hypothesis can stand or fall on. Indeed when we change our perspective view to the concepts of moment fields the view can demonstrate the primary space structure, the origin of potential and charge, the fine structure constant, electron shell values, chemical valence, and do so without particle logic.

We are trying to grasp a new perspective of micro space. I here proposed that a view of multi-dimensions has, so far, escaped our search for several very simple reasons. First, we do not yet see the moment-to-moment inter-phase between universes nor understand the natural geometry of it. If we do, we might have trouble expressing it in a hyper-dimensional context. That means in order to see the functions of interactions for parallel universes one must grasp the moment nature of their finite connective fundamentals. That means we cannot comprehend how universes can coalesce unless we embrace the geometry of the finite moments between them.

Another reason lies in the point that though many thinkers have seen the superficial characteristic of the geometry they cannot comprehend the electro-dynamic implications of it. That comprehension can only arrive within an intimate awareness of the natural space matrix geometry. If you have not explored that geometry do not delude yourself with thinking that the math you now command contains the information that you need. Calculating tools yes, but conceptual tools probably not. So, we will now look at the bare conceptual necessities.

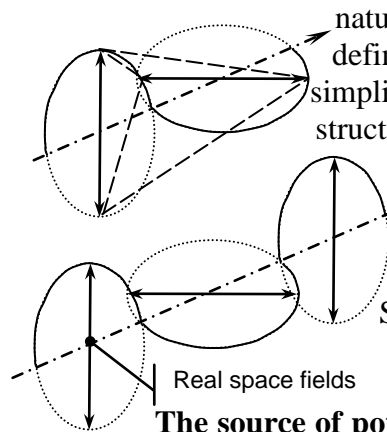
The tetrahedral form is the superficial view mentioned above. However, there is far more to the space matrix axioms than just the tetrahedron. The actual understanding of the geometry can be found more in the work of R. Buckminster Fuller than anywhere else.⁵ So, my son and all you Dear Readers, if you wish to comprehend these concepts you will have to explore the space matrix fundamentals. Those fundamentals prescribe and can define every shape, form and EM action in this universe. If you can find a single exception to that claim then these ideas are not sound. This treatment will only give a sketch view and with that view comes a first and simple example.

Before we look with deeper consideration on the superficial, let's have a short review. We have considered within concepts of electrodynamics; 1) The absolute fundamental is potential. When you become intimate with the geometry involved you will see how its axioms perfectly demonstrates hyper-dimensional potential. 2) A quantitative potential naturally exists at each and every finite moment between universes. 3) That potential is bound, as a self-delineating characteristic of its existence, in moment-to-moment fields. 4) Those fields must exist within the electro-dynamic fundamental of perpendicular field relationships. 5) Those perpendicular relationships also manifest, in self-delineating characteristics, the properties of stable space. The most beautiful part is, no particles are needed. Within inter-phase concepts we begin to see the prototype condition that provides the illusion of particles.

⁵ Buckminster Fuller, An explanation by

SECTION 3: THE NATURAL SPACE MATRIX AND EM SPACE

James Clerk Maxwell set forth the fundamental geometry of EM space in his classic theory. He might not have fully realized it but his model shows that the field structure he theorized is, in the nature of its own geometry, the signature of the tetrahedron. Maxwell defined the EM structure as cascading perpendicular fields. To the left is a simplified picture of Maxwell's EM field model. Please note that the EM field structure is literally a tetrahedron.

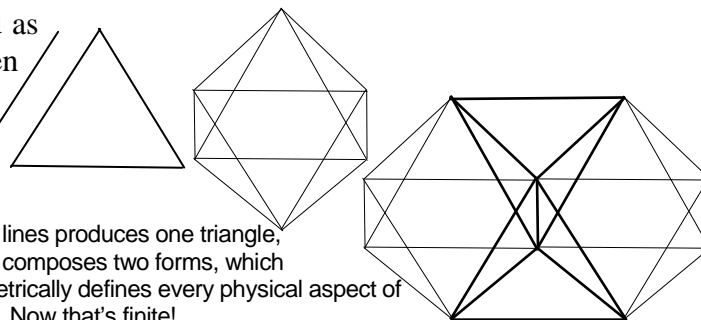


The natural structure of space, as modern science now comprehends it, is photon fields in perpendicular EM field relationships. The scientists have just not yet noticed that as a matter of geometric principle photon space is in a cascade of fields in the tetrahedral form.

So it follows that EM photon fields have the properties of tetrahedral structures. So let's look once more at our fundamental functions of E-M space as moment potential relationships.

The source of potential can be modeled by a simple discrepancy. That discrepancy is an integral part of universal dimensions. When the pure geometry of space is understood a peculiar condition is seen. 1) Space is not cubical and all of the notions of parallel cubical space are pure add hock abstracts. 2) The natural space matrix is axiomatic in that its geometry is the finite expression of space. Conserved potential in field relationships must conform to its irreducible conditions. We will explore here some basics without really getting into the geometry.

The natural space matrix (NSM) is defined as a space filling geometry that exists when equilateral triangles are consistently connected at their vertexes. A single element line joins two others of itself in a triangle, which connects to others triangles in two basic finite forms, octahedrons and tetrahedrons.



Equal lines produces one triangle, which composes two forms, which geometrically defines every physical aspect of reality. Now that's finite!

Hence, the matrix exists in lattices of octahedral and the tetrahedral connectedness. We cannot say which is the most fundamental because they are “*existual*”. That is a way of saying that one form cannot be in a continuing connective concert with itself without the other.

Octahedral lattice forms are in infinitely perpendicular arrangements. They are static in the sense that their orientation, from form to form, is perpendicular and invariable. In these ways the octahedral lattice is the perfect model for the electro-static conditions of space.

The tetrahedral lattice forms are dynamic in the sense that their orientations form to form always change in torsion patterns about the octahedral form. Also the tetrahedral continuity extends in infinite linear torsions form to form in unidirectional patterns. With these characteristics the tetrahedral lattice provides the dynamic fundamentals of EM space.

Hence, it starts to become obvious how finite properties of an infinite matrix can model every aspect for the physics of electro-dynamics. Also within our understanding of this model comes the perfect geometric basis for it application.

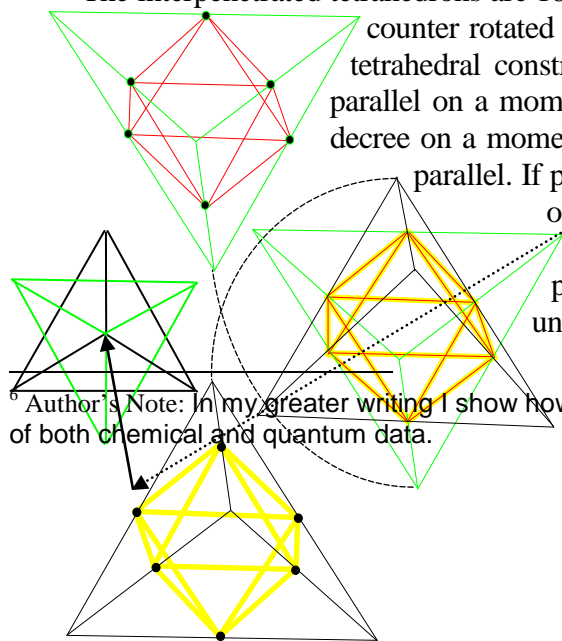
At this point you might be wondering what all of this tetrahedral geometry has to do with moment potential, the charge dichotomy and E-M phenomenon. You will soon see how charge symmetry in basic fields are naturally bound within tetrahedral configurations. But first we must look with the sequential perspective more closely at the source of potential.

What is the essential nature and source of potential? Within an understanding of the matrix geometry we see a unique property of the NSM. The natural and fundamental octahedral, tetrahedral space relationship exists in what is seen as interpenetrated tetrahedrons. As a model for parallel moments of two universes their inter penetration offers some interesting properties.

The midpoints of each tetrahedron define the vertices of an octahedron. When these tetrahedrons are interpenetrated the central octahedrons become, in essence, two exactly parallel octahedrons. The actual octa configuration has a tetrahedron on each of its eight faces. They are the eight vertex points of the tetrahedrons interpenetrated to the midpoints of their element lines.

The interpenetrated tetrahedrons are 180 degrees opposed on a vertex to face center axis but each is counter rotated on that axis 30 degrees. What that says is, if real space is a tetrahedral construct then the real space of two universes cannot really be parallel on a moment-to-moment basis. And, in that realization, by geometric decree on a moment-to-moment basis parallel universes are 60 degrees out of parallel. If potential is defined as a dimensional variation between forces or energies, we can see this 30 degree rotation in either universe as a natural dimensional signature of universal potential.⁶ Those who study the hypothesis in depth will find unexplainable properties of elements for which that 30 degree

⁶ Author's Note: In my greater writing I show how that condition relates to every molecular force energy property of both chemical and quantum data.



potential provides the key of understanding.

Within the single unique interpenetrated configuration the octahedrons naturally models the static electric inter-phase between universes. Their exact parallel status is perfect for that function. The tetrahedrons about the octahedron, model the dynamic and symmetrical real spatial contexts of moments in two universes.

As you look closely at the picture to the left you will see that if you could view this interpenetrated configuration tetra vertex to tetra vertex you would see a Star of David.

How does that universal wide moment potential become the charge dichotomy? When the matrix is seen as the inter-phase of hyper-dimensional circuits a clear picture of polar charge emerges. Each moment of circuit is seen as a center of force or energy. Their designation follows strict functional rules of the geometry. Circuit actions toward centers are seen as force and actions away from centers are seen as energy. In essence they are each the same single manifestation of the universal wide potential.

However, when the centers are contiguous (symmetrical hyper-dimensional circuits) as a force (toward centers) the potential between... is attractive. Center potentials that are non-contiguous (away from centers as energy) repel.⁷ Within the actual geometry one can follow these circuit properties in clockwise and counterclockwise continuities that justify all of the principles of the known electrodynamics of charge. Hence, it is as physicist Abdus Salem proposed many years ago. "The mystery of charge appears to lie within the context of higher and other dimensions."

The next question that may come to your mind is how do fields naturally conform to the geometry as the hypothesis claims that they do. Try a simple mind experiment. You have before you many magnetic rods each of equal length with the same magnetic force. See them as collectively modeling the isotropic homogeneous fields of space.

Follow the criteria of attaching every three set of these magnets together in the most finite geometric shape. Walla, you have equilateral triangles. Next you will remember that the NSM is defined as connective vertexes of equilateral triangles. Following the rules of polarity these magnetic elements naturally provide the space matrix. Now imagine the poles of these magnets as modeling potentials between universes conforming to those same construction principles in the real space of a given universe.

How does this alternative model expand on and enhance Maxwell's geometry for EM theory?

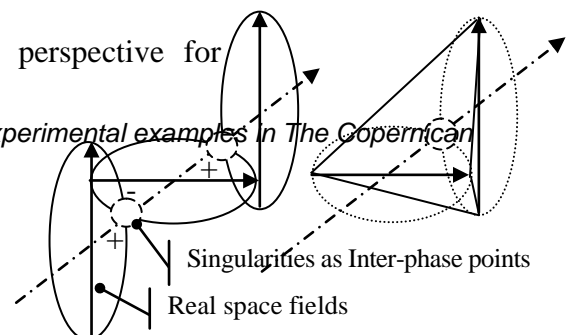
The two lattices, considered as vector fields, provide the geometry for quantitatively handling the obvious EM variables. The octa lattice perfectly models the static transitions of EM fields, while the dynamics of the tetrahedral lattice models the magnetic properties of EM space.

Hence, in a matrix model of EM fields we will look at the lattice forms as vector fields wherein the line elements of them are seen as force energy vectors of space fields. The first leap of realization is in the recognition that E-M transitions are form related as vector fields. The field forms combined in each half spin of their Maxwell torsion pattern equate with two tetrahedrons. As a point of fact, the volume of a tetrahedron equals 3.33 of any cubic volume measurement having equal element edges. That means that our new tetrahedral E-M field identity, of two tetrahedral vector fields, adds up to 6.66 of any cubical measurement of energy. As an interesting note, Planck discovered his energy constant (6.626) by finding the common denominator for all of the energy measurements as rendered in the Cartesian cubic system.

By its very geometric nature the natural space matrix (NSM) models Maxwell's EM theory while it opens up hyper-dimensional factors for it. One mystery of E-M theory is the field transition from plus to minus to plus to minus in the field propagation. These transitions are seen as singularity while rationalized as conserved energy.

To the right, is a diagram from the sequential perspective for

⁷ These explanations are covered in great detail with several experimental examples in *The Copernican Syndrome, Book II, A hyper-dimensional Mechanics*.



propagating E-M fields. Note the natural position for the transition points which exist at the exact centers of the tetrahedral vector field form. Remember the inter-phase function of the octahedron within every tetrahedron. It is by its very geometry the basis of inter-phase transitions.

In this view EM field propagation is no longer particles in motion but rather moment-to-moment transitions of inter-phase. Also, when you realize the deeper implications you will be able to see that the singularity mystery dissolves in the realization of the inter-phase centers.

How does the singularity mystery fit in this model? Annihilation and cancellation are simply the natural phenomenon of inter-phase. In that sense, explainable or no, the phenomenon of singularity is the evidence of inter-phase. Singularity is the vivid example of electro-dynamics within a universe as actions between universes. The mechanics of the applied geometry shows us how to understand those phenomena as an integral part of the fabric of space.

Have you noticed that we have met the 4 basic requirements for a theory for everything? Also did you notice the answers to several of the other points of unifying quality. Also have you noticed that our qualifications flowed concept-to-concept, one leading to the other, without add-hock rationalizations or abstractions? With that as our track record we will re-look at the requirements that were introduced in **Section 1**.

The first requirement is a consistent geometry. Under this requirement we have applied the natural space matrix geometry. The axioms of that geometry pervade every property of spatial physicality.

The second requirement is applicable functions of multi-dimensions. Under this requirement a logical hypothesis has been offered that can geometrically handle the conditions of hyper-space.

As the third requirement, a unifying model must depart from the idea of mass particles. Within this requirement is the simple and pleasing view that mass only coexists as an integral part of the fields we account to it. When vector field principles are applied to the fundamental fields every particle assumption dissolves in an interaction of potential between universes.

The fourth requirement comes in a final explanation for the wave particle duality. The absolute dissolution of the question on duality lies in a simple and direct realization. The only concept consistent with either particles or waves is pulsed potential. In a loci of inter-phase points or as detected points of inter-phase the pulsed potential looks like a particle. In dispersion across an area of inter-phase the pulsed potential natural manifest a wave structure. Pulsed Potential is the grist and mill definition of every real physical possibility. Yet, physical existence by itself cannot define potential.

We have also dealt directly with three of the seven mysteries that plague the present theories of modern physics.

- 1) We detect quantum motion, but what is it, wave, particle or what? We now can see QM as manifest in a loci of connective moments of inter-phase.
- 2) What condition specifies charge symmetry and potential? Every property of charge potential can be modeled within an application of the natural space matrix.
- 3) What are the basics behind singularity? Inter-phase properties are the natural and direct solution.

Now we can treat the last four mysteries. They are at the heart of the zeal to establish a functional TOE. However, I will be brief, in that I will take you to some of the conclusions I drew from the model or calculations I followed sans examples and or equations.

4) **Chemical periodicity and valance exist but science does not know why.** An advanced view of the matrix model takes the mind to vector fields. The vectors can be reduced to a sequence of actions with values of angles and magnitudes. The sequences can be managed as phase states of vector fields. Each phase state is quantifiable within the matrix geometry. The phase states can be managed with phase physics.

These sequences of phase states and magnitudes become the basis for the sequential perspective.

Chemical periodicity is a two-phase (720 degrees) octave system. Each element is a phase state progression of 90 degrees within that octave system. The sequential hypothesis defines how the quantum potential is manifest in 30 degrees of phase state progressions through the octave phases in a symmetry of 120 degree phases.

In a phase physics analysis the 120 degrees phase state progresses out of phase with the 90 degrees phase state in increasing increments of seven 30 degrees phase states. At the octave level of elements the 120 degrees phase states become coherent with the elemental phase states. This is just how we see the valance progressions of elements. Further, when you master the geometric applications you can predict all of the valance possibilities that have been experimentally discovered.

5) **The fine structure constant ratio has been measured but is not yet understood.** The fine structure is the constant ratio relationship between electron (static electric) and photon (magnetic) forces. Within the sequential hypothesis is the proposition, partly described above, that the static electric (electron) states of inter-phase are in phase states of 180 degrees. Also, the magnetic states of inter-phase are in 120 degrees of phase. In pure vector analysis it becomes plain that the electric/magnetic ratio would be a simple division of the magnetic vector state into the electric vector state. That simple division in terms of sine 120 degree into sine 180 degrees equals the Fine Structure Constant.

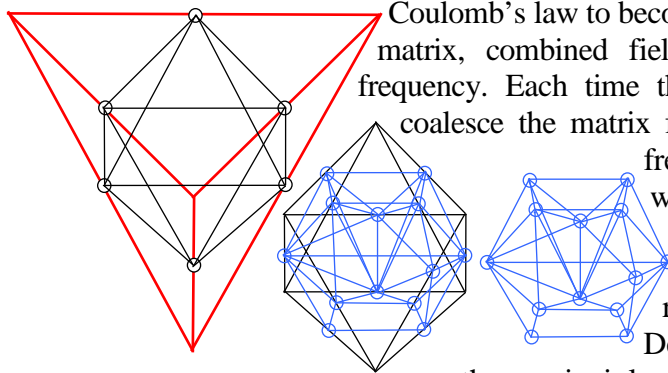
6) **The weak force, strong force ratio and varied nucleon masses exist, but why?** This mystery takes us to the very edge of the matrix logic. Remember that potential is a function of distance. We can then say that when universal quantum potential is at its weakest (primary space inter-phase) the fundamnet matrix element of contiguous moments are at their furthest limits. These equates with what is seen as electron-photon interactions of space. The “weak force” is universal quantum potential at that limit. The Sequential hypothesis takes this same logic to strong force limits. **The Sequential; Hypothesis** sets forth three principles of spatial physicality. Those principles are not presently considered within modern physics. The first principle of spatial physicality is the finite tetrahedral definition of space. The second principle is that of matrix circuit continuity. The third principle of spatial physicality, which we have not yet examined, is more extensive than can be fully covered here. That is the principle of coalesced fields.

The principle of coalesced fields can be simply stated. Just as inter-phase moments can be contiguous (primary fields) they can coalesce (combine in complex fields). When fields coalesce they follow

Coulomb’s law to become $\frac{1}{2}$ closer and two times stronger. In terms of the matrix, combined fields becomes a balanced function of mid point frequency. Each time the fields (modeled by the matrix element lines) coalesce the matrix form arrives at a state of second frequency. That frequency division defines a more complex hierarchy within the matrix as seen in the diagram to the left. This simple picture will also help us understand the mysteries of the strong/weak forces, nucleon mass ratios and crystalline orders.

Dear reader, if your mind swims in slight confusion over these principles please consider that maybe it is because you are totally unfamiliar with them rather than they may be flawed. The best motif to have in your mind is to think of the many scientists who had the same problem with a sun centered solar system, Planck’s constant and Einstein’s relativity. That will help as we look at the strong weak force ratio.

One can intuit from the third principle that the weak force is simply the extreme limit of primary space and the strong force is a limit of combined complexity. Within the laws and rules of the NSM this



coalesced condition can occur within contiguous moment fields to a tenth level of complexity. If the weak force is applied in Coulomb's equation, following these rules, and if the equation is iterated to the tenth level the calculated results is the Strong force. As stated above the weak force can be define as universal quantum potentials at primary space levels. Strong force can be defined as the forces of space combined in tenth level complexity to become the forces of matter. Those forces are the key to mass so, let's consider the definition of mass from the sequential perspective.

The sequential physics definition of mass lies in a degree of inter-phase force. The closer the inter-phase field the greater the force and the greater the mass. Remember that the inter-phase force is in degrees of frequency. On the macro level frequency equates with velocity. This matches the observation within macro physics that the higher the velocity the greater the mass.

Nucleon mass is a part of the realizations on strong/weak force concepts. The geometry within those concepts provides self-delineating-characteristics that manifest the magnetic and gravity constants. To begin with, we have noted that when fields combine more complex hierarchies of form exist. A characteristic of the matrix hierarchies is variations of forms. Each form has closer fields and different variations of vector field relationships. The matrix geometry demonstrates that strong force levels of vector fields reach basic forms that equate with variation of isotopes and nucleon masses. When the geometry is applied such experimentally observed variations can literally be predicted. This predictive aspect of the matrix application is also true for variations of valence, density, freezing points/boiling points and specific gravity. Yes, the sequential perspective supports the idea that gravity is not always constant element to element or compound to compound.

7) **What condition is responsible for gravity?** Our minds must return to the concepts of inter-phase circuits and center force/energy manifestations. The infinite moments of universal realities are in connective circuits both within and between them. The infinite circuits are all field connective. Hence, their attractive or repulsive force/energy defines space and binds the matter molecules that naturally pervade EM space. Within that condition every moment of every molecule in every mass contains a factor of attraction or repulsion. The strength of these conditions is based on the inter-phase centers that are involved. These centers are the factors of mass and volume.

Again, this is a function of complexities of fields. So, no matter where two masses exist, in free space, they experience constant attractive force or repulsive energy. The force/energy ratio of the gravity condition is discernable within the applied geometry of those conditions. The specifics of that condition equates with the gravity constant. It also illuminates the long held opinion on gravity and anti-gravity. The correct picture to see is separate masses, as forces, bonded within through hyper-dimensions. Yet they will all be attractive across real space based circuits through hyper-space.

Magnetism fits equally as well within these ideas. However, We cannot completely explore magnetism here. I offer with that statement a challenge to anyone, to whom these ideas call, to explore magnetism based on what you have realized here.

However, here are some hints to follow. 1) All force is defined in geometries of moments. 2) The force of all moments is towards their centers. 3) All centers are connective within the threshold of mass. 4) Every magnetic material is bonded within cubical crystalline orders of elements. Now all you have to do is look at the geometry of magnetism, sans counter-rotating electrons, and every mystery of magnetism will fall into logical explanations.

This is a radically different model. It does not fit within the standing conventions on how we rationalize sub-molecular phenomenon. None-the-less, it is based on concepts that support the long-standing principles of electro-dynamics. No principles within our present understanding of physics would disprove a concept of potential as the connective grist and mill of a universal construct. That concept is most obvious. Nor is there a principle of physics that would not support the idea that

connective moments, of potential, between universes can provide the spatial composition within them. Our present search is to realize and understand that idea. The areas of our comprehension that are still gray and fuzzy obscure our realization of that concept.

The only negation of these ideas lies within the convoluted approach that modern physics uses to handle the data. In comparison these concepts are the most direct and simple view of existing data. Indeed, in comparison, our present quantum theory simply does not support the Ockham's razor proposition.⁸

Important insights arise from these considerations. If you examine each principle carefully you will see that there is no physical principle or laws they contradict. Further you will realize that their possibilities illuminate many of electric-magnetic phenomena that we do not fully understand. As you weigh these ideas observe how they flow in their geometric context without add hock abstractions or dualities. However, to make that judgment you must be aware and disciplined in the fundamental geometry of everything.

An insight drawn from the first requirement indicates we do not need to render unification with elaborate math processes. The consistent geometry needed for unifying the natural fields already exists in electromagnetic principles. It appears that it was somehow completely missed throughout a century of looking for it.

To my mind there must be at the bottom of it all, not an equation but an utterly simple idea. And to me that idea when we finally discover it, will be So compelling, so inevitable, that we will say to one another, "Oh how beautiful. How could it have been otherwise?"

Princeton Professor John Archibald Wheeler.

The finite geometry, touched upon here, has been with us from the beginnings of historic times. It is axiomatic because its characteristics are all self-delineating. To see it is to understand its application.

Rod Johnson.

⁸ Ockham's razor—which said that one should not assume the existence of more things than are logically necessary Philosophy, Western," Microsoft® Encarta® Encyclopedia 2000.