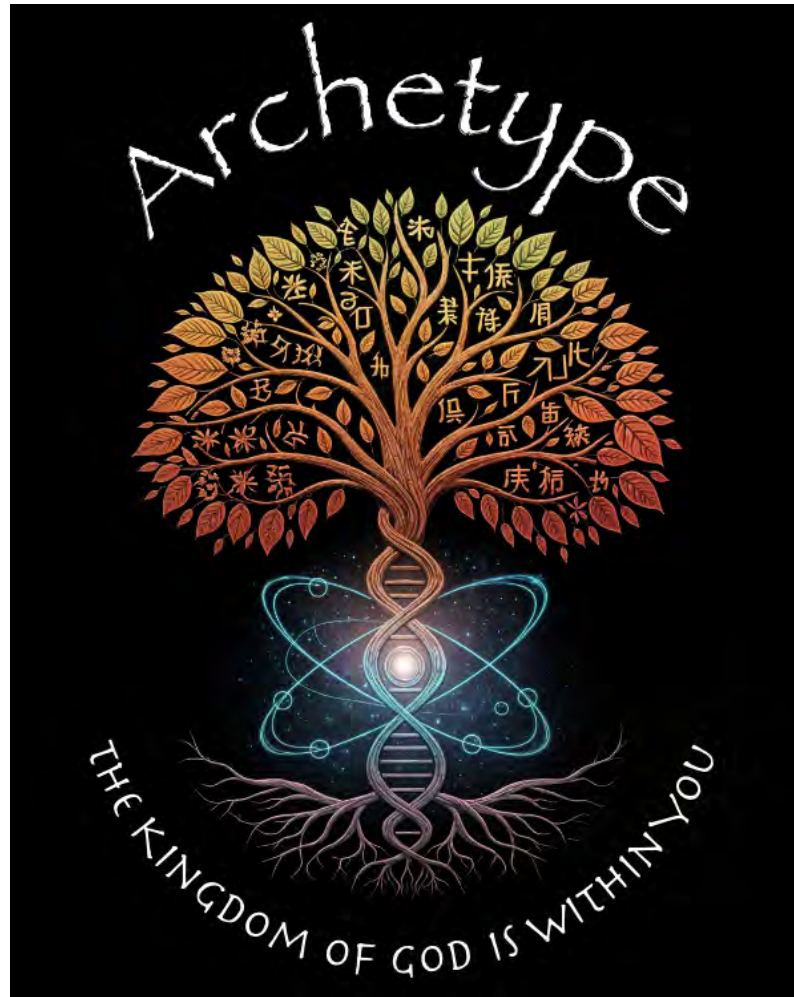


Synergy Physics

The Journey from Physics to Metaphysics.



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In modern physics, the discovery of a Unified Field Theory (or Theory of Everything) is considered the “Holy Grail” quest. Obviously, 800 years ago the original quest for the Holy Grail was quite unrelated to our modern scientific notion. But I wonder on closer inspection if the symbolism behind the grail legend might actually be more relevant to the human condition.

The earliest known written account of the Holy Grail is found in Chrétien de Troyes' Old French poem "Perceval, the Story of the Grail" (written around 1180 but never finished). This was the period between the 2nd and 3rd Crusades and prior to the beginning of the Inquisition in 1233 against the Cathars in France. Over the years numerous iterations of the poem were written by other authors.

The gist of the story is that our young knight (Parsifal) is on a quest to heal the wounded Fisher King (and the country he rules). He’s advised to be sure to ask the right questions when he meets with the king. And each time during multiple dinners, the same set of various objects are paraded before the king and the young knight repeatedly fails to ask the question. Traditional exoteric religious symbolism aside, there are esoteric Gnostic insights buried within this story. The wounded Fisher King is the injured self, seeking a nurturing cure (the fish) from the depths of the water (the unconscious). Seen within the context of lucid dreaming, the parade of objects is symbolic of one’s stream of consciousness with the grail being a clue to the cure. Parsifal “asking the right question” is the conscious self becoming aware within the dream and establishing lucidity and a meaningful dialog with the unconscious. So at least in literature, our ancestors could have been aware of the power of lucid dreaming and that self-realization is the ultimate goal in life (whether it be for a flawed world leader or for a wounded self). You might say that self-realization is the vessel (the holy grail) for holding the divine spirit.

Hebrew ontology acknowledged the sanctity of natural law with Psalm 33:6 – “By the word of the Lord the heavens were made”. Through a modern lens the “word” refers to the laws of physics that govern how our universe operates. So you might say that physics is ultimately the “Language of God” albeit a concept that is not easily relatable to the human experience. So various religions have come up with their own notions of who we are and how we relate to the Divine. And for the most part these are exoteric doctrines, targeted for easy adoption by the masses. In modern times, in our haste to shed the shackles of religious dogma, western science has embraced an atheistic, reductionist and materialistic view of that sacred language called physics. We can applaud the justification for a scientific method but not the limited scope of the inquiry.

So we lost our true grail quest and settled for the tangled mess within String Theory. When we eliminated the concepts of Consciousness and Spirituality from our search for a greater ontological understanding, we doomed ourselves to a very limited model of reality. So what should we really expect in our new ontology?



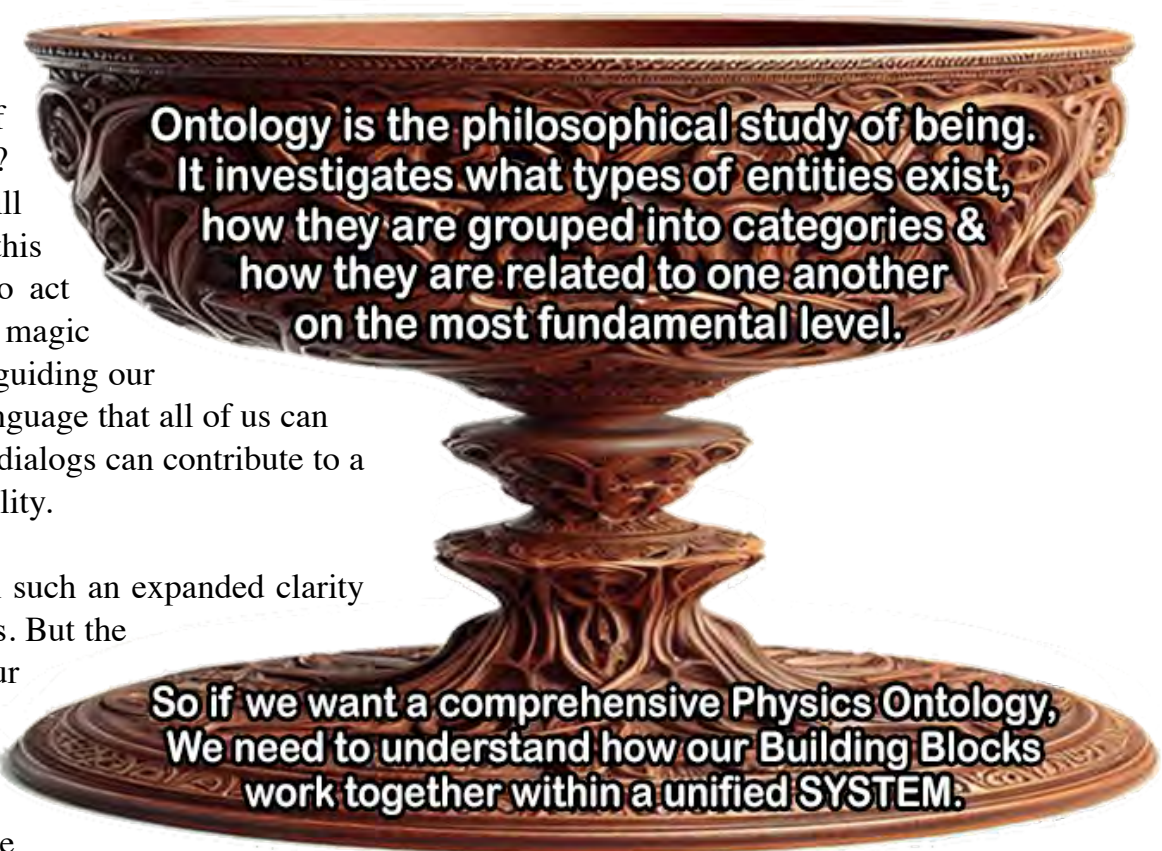
Ontological Expectations

So how does Parsifal's grail quest for self-realization and healing relate to the holy grail of physics? If physics is the Language of God, shouldn't understanding the ontology of physics bring us closer to our understanding of the Divine? Clearly life itself is the ultimate magic. Unfortunately we will never understand the full majesty of the creator behind this miracle. Religions may attempt to define god and how to act righteously, but if we can personally experience how the magic operates within us, we can get closer to understanding and guiding our own personal spiritual journey. And if there is a common language that all of us can use to describe how we operate, then perhaps a diversity of dialogs can contribute to a more harmonious, mutually connected world culture and reality.

It does sound preposterous to propose that one could attain such an expanded clarity and awareness from knowing just the bare physics equations. But the assumption is that these laws of physics, which govern our existence at the atomic level, happen to be a pattern that is abstracted all the way up to the human ontological level as well. So if we can understand how this metaphysical ontology operates we can better understand our own true nature. And that is the journey of young Parsifal in his quest to know himself and to bring wholeness and healing to the world.

"People like you and me never grow old," he wrote a friend later in life. "We never cease to stand like curious children before the great mystery into which we were born."

— Walter Isaacson writing about Albert Einstein



Ontology is the philosophical study of being. It investigates what types of entities exist, how they are grouped into categories & how they are related to one another on the most fundamental level.

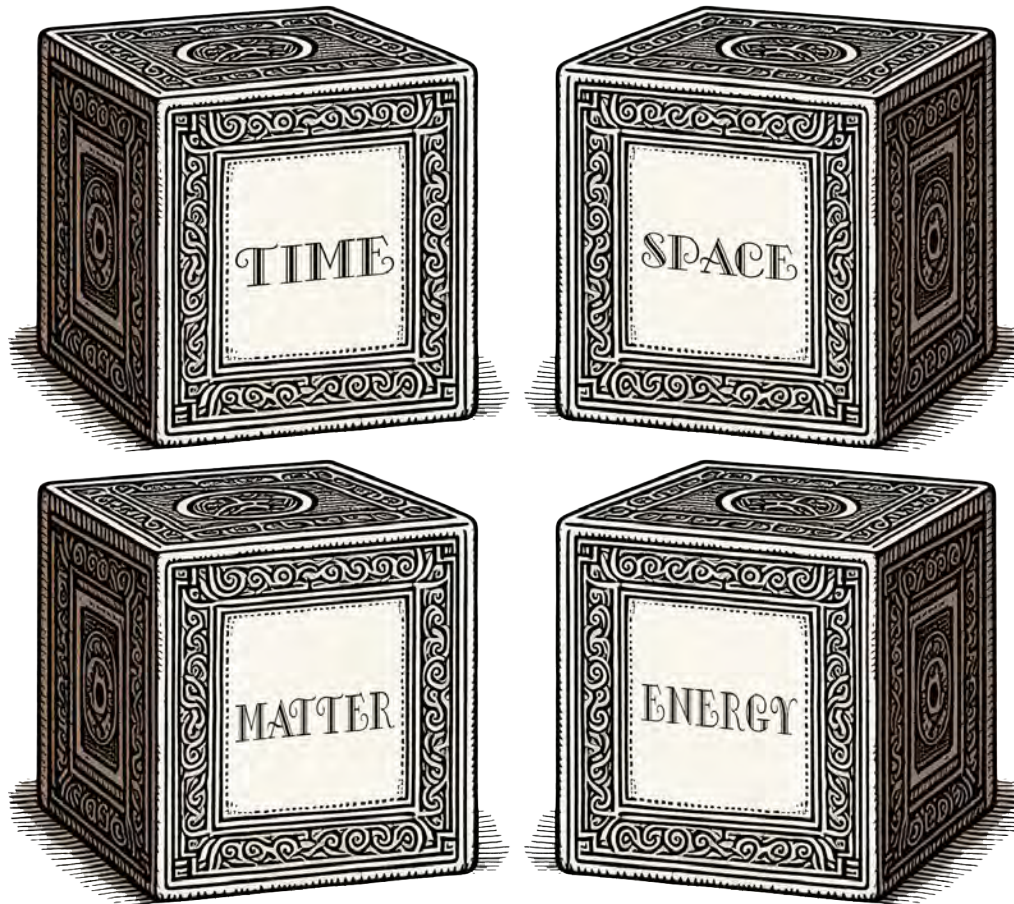
So if we want a comprehensive Physics Ontology, We need to understand how our Building Blocks work together within a unified SYSTEM.



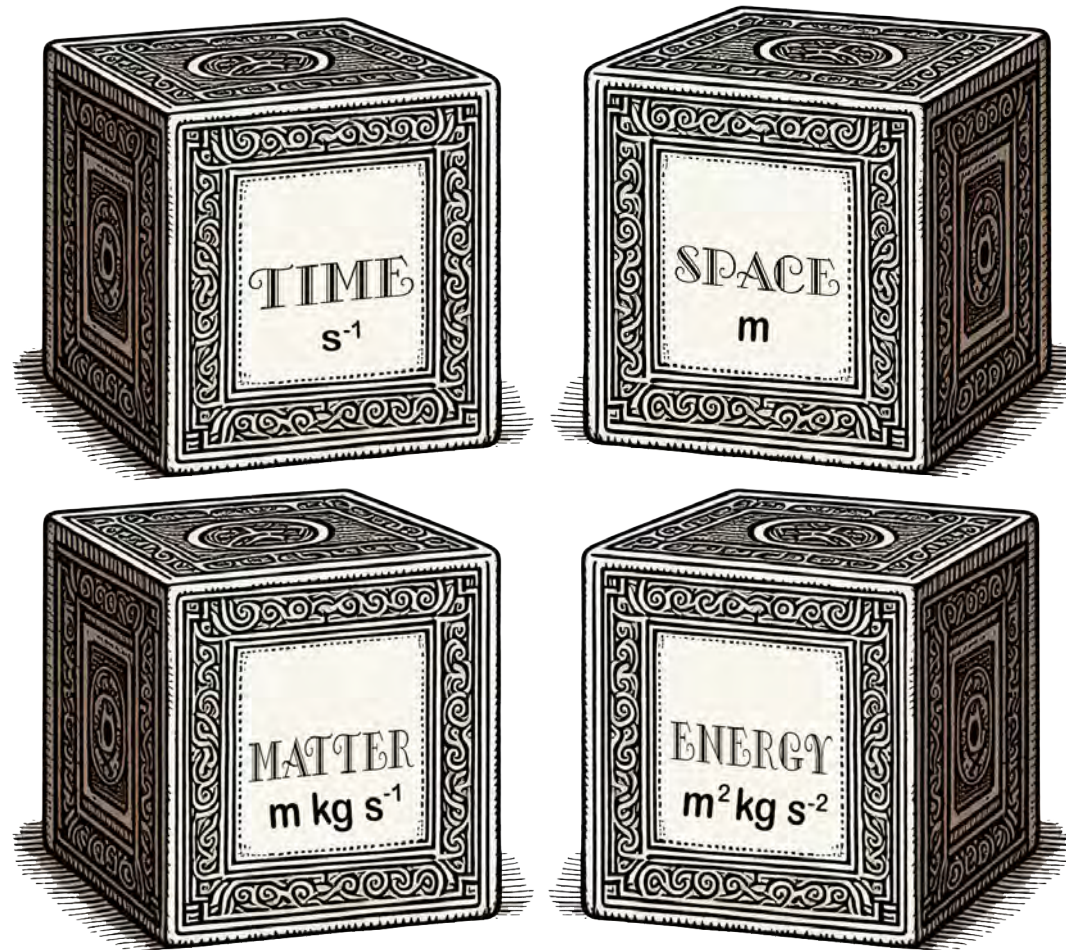
So what are the Fundamentals?

Seems to me if you want to build your ontological model, you need to start with the most fundamental building blocks.

Let's Play with Blocks!

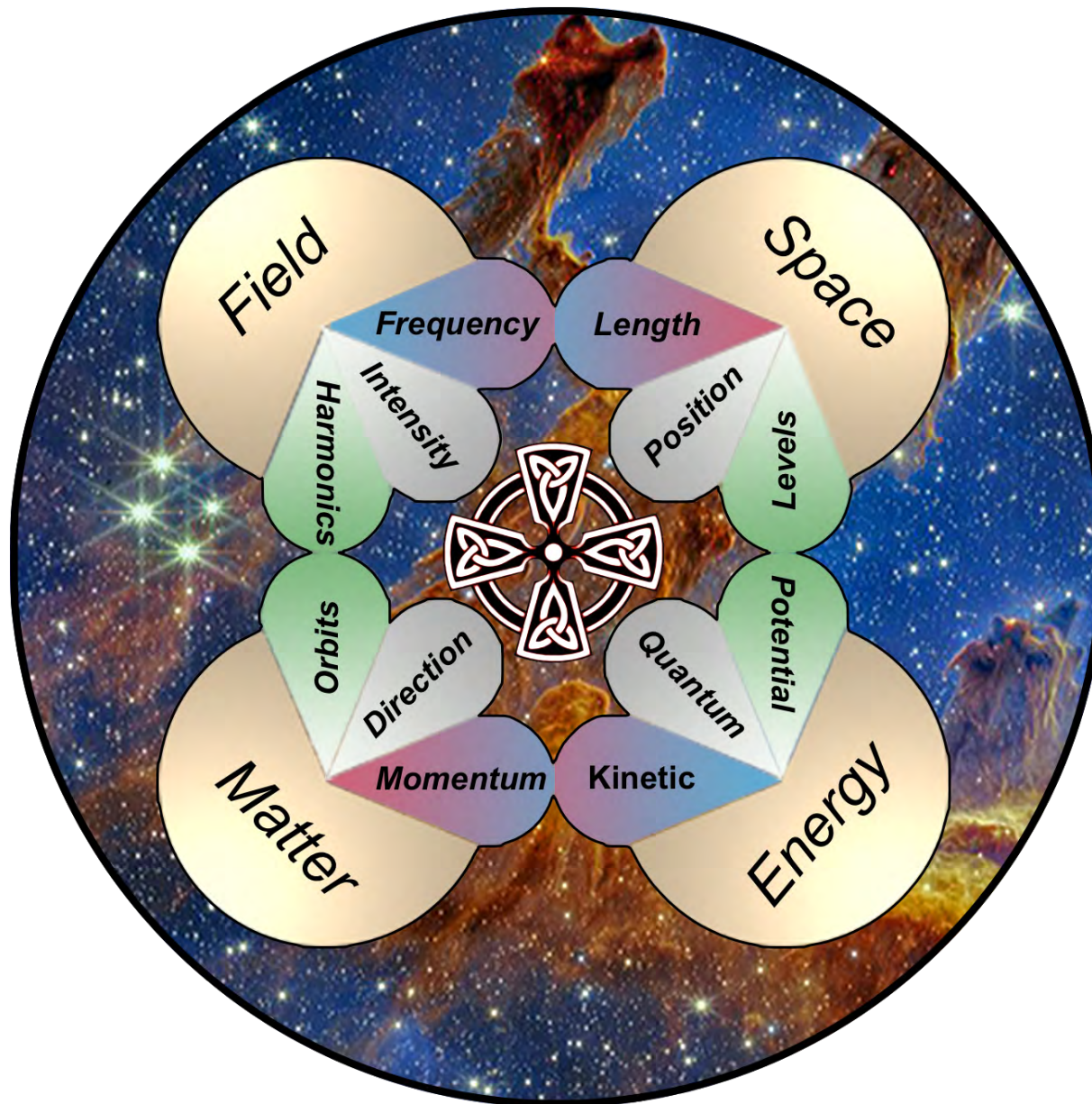


Using the International System of Units



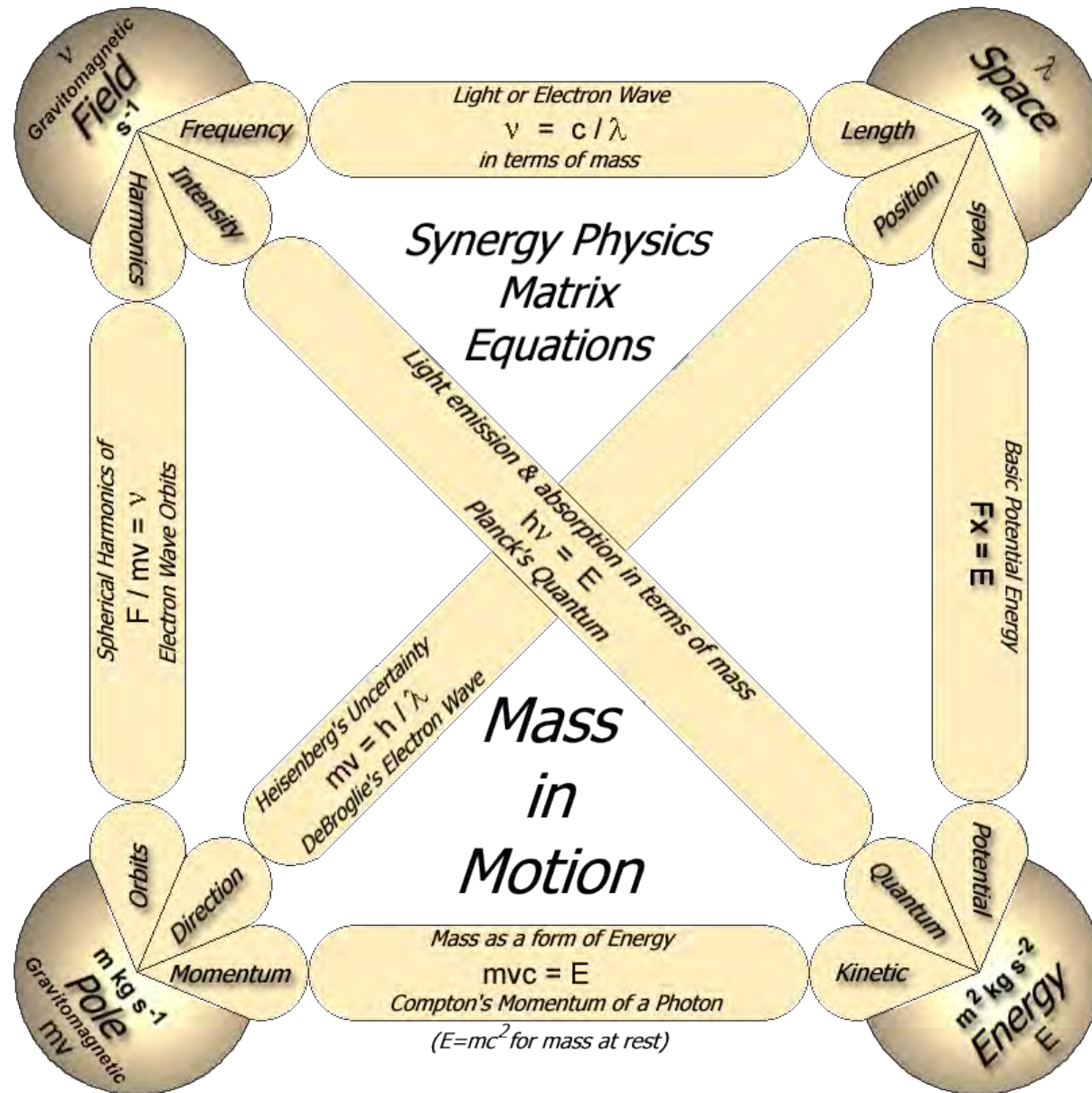
But surely our building blocks must have some fundamental interrelationships...

Establishing Matrix Relationships



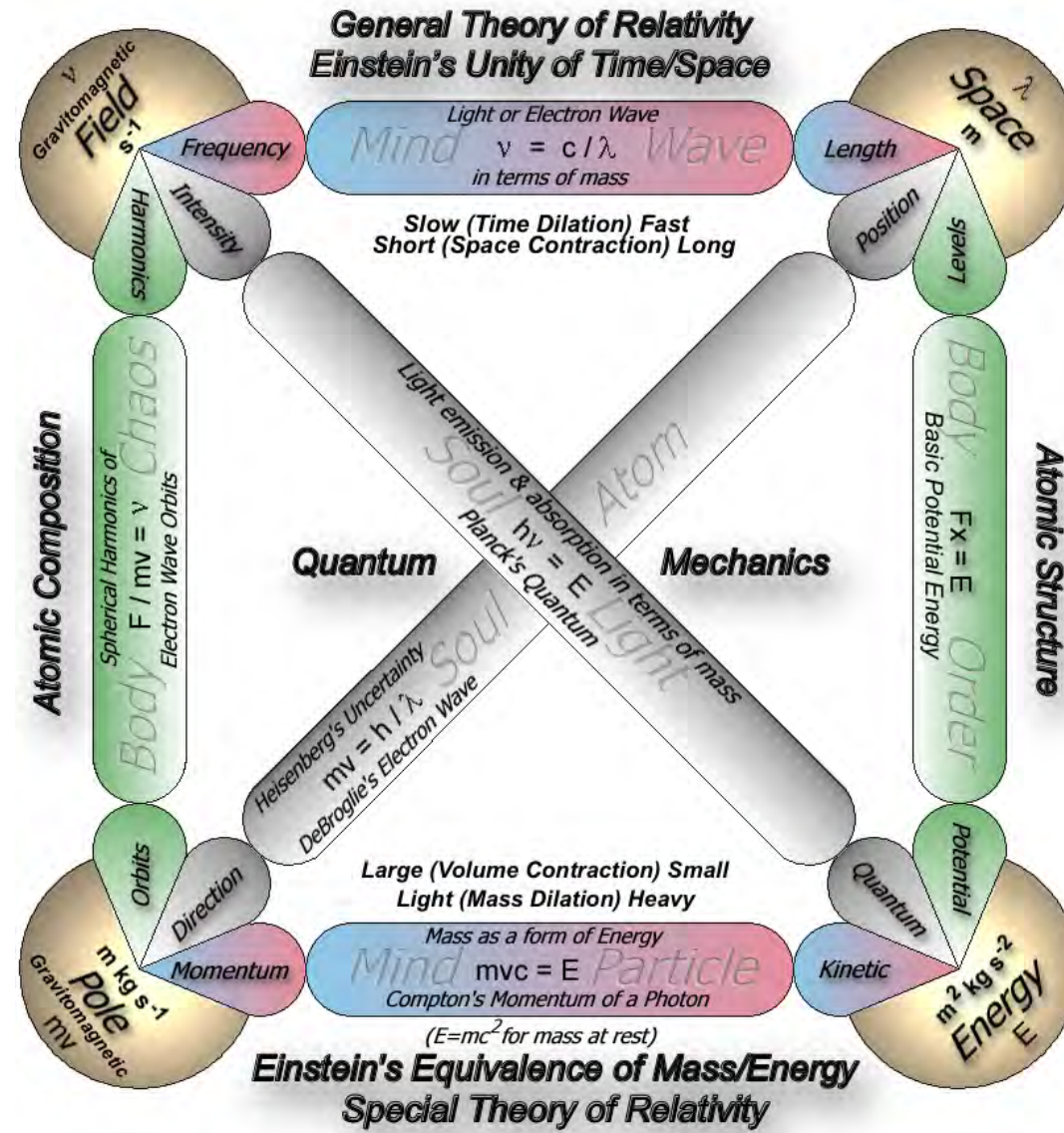
Each block now has three expressions based on which other block it relates to.

Add the Physics Equations



Equations look familiar?

Unexpected Consequences



[Three realms gravity 3.jpg]

Good Grief! The Definitions of Body, Mind & Soul, You Say?!
Could our Ontology possibly be so simple?

A Tripartite Reality?

It's interesting to contemplate that our existence could be based on the three intertwined realms of Body, Mind & Soul, each with its own set of laws.

BODY

I don't think it's a huge stretch to consider the forces that create the atomic structure and the atomic composition to represent what we consider Physical.

MIND

Waves and Particles and the speed of light strike me as the heart of Communication, which is what the Mind is all about.

SOUL

Here we have the Emission and Absorption of Light which in my worldview is the heart of Spirituality.

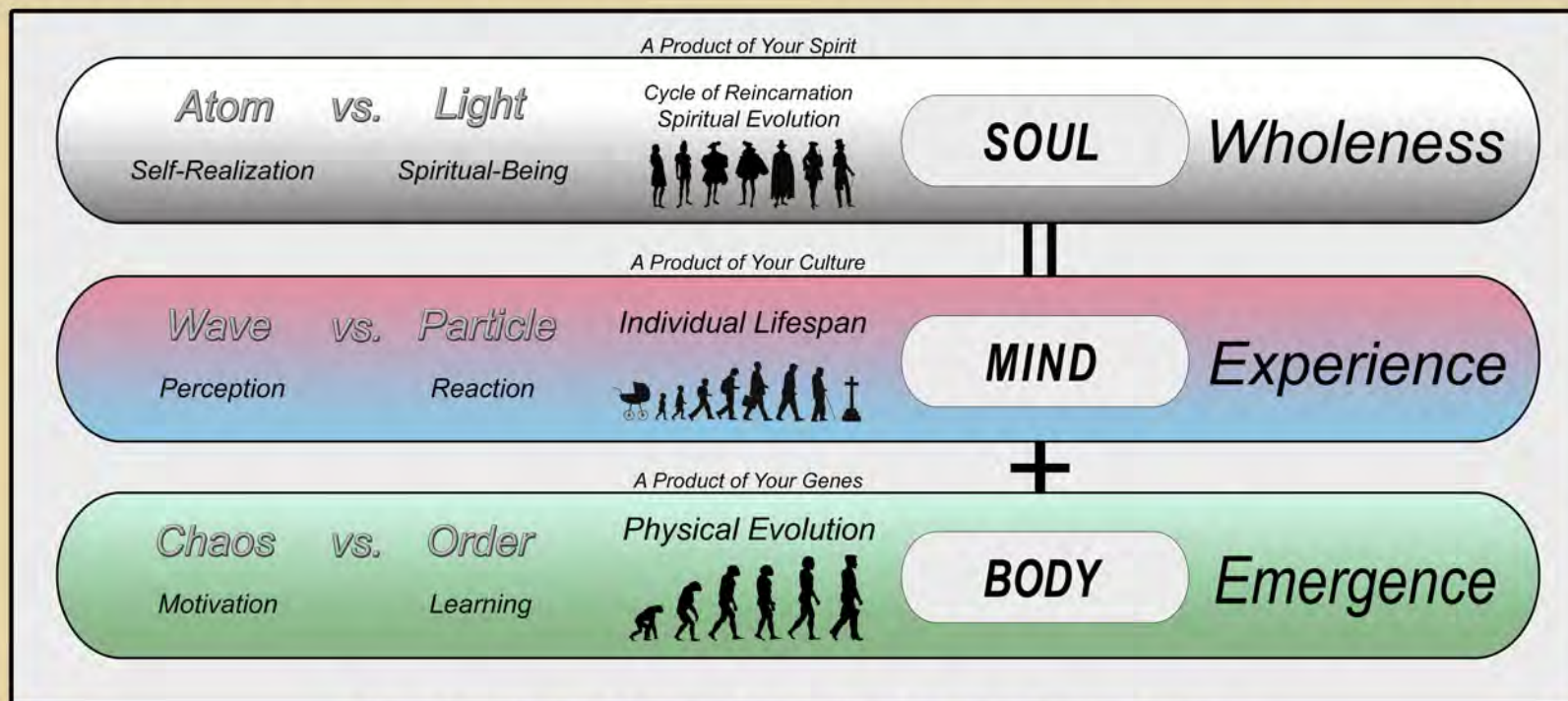
What is most interesting is that the whole Body/Mind/Soul relationship is summarized in Einstein's Photoelectric Equation:

$$\text{Quantum Energy} = \text{Kinetic Energy} + \text{Potential Energy}$$

(Soul = Mind + Body)

It pretty much sums up our Reality. We are predominantly Spiritual Beings.
The Soul is like a Divine Dream projecting Life.

**Basically, Life is just an intersection between three reciprocal dualities.
With the caveat that the Soul Dualities encompasses the other two.**



*Einstein's Photoelectric Effect is the Foundation
Quantum Energy = Kinetic Energy + Potential Energy*

Most researchers working to reconcile general relativity with quantum mechanics are approaching the task from a mathematical/geometric framework. Any other approach has never been an option within the reductionist viewpoint of traditional theoretical physicists. That is just the only language they know.

Are contemporary physicists stuck in the same predicament as the gifted Ptolemaic astronomers of the middle ages, where ultra complicated calculations based on a geocentric model had to be severely kludged to have any predictive value? They were totally missing the most elegant and simple solution based on a sun centered system. Needless to say, in this day and age it's also quite possible to have a brilliant mind hindered by a mindset closed to broader perspectives.

As stated earlier in this document, if you aren't looking for something, you're not likely to find it. And even if you are trying to define consciousness, if you are unwilling to observe your own consciousness, what insights could you have?

I realize that the staggering simplicity of the Synergy Physics model can elicit skepticism from an academic community used to complex mathematical abstractions. Who would have guessed that an integrated system's perspective on Einstein's Photoelectric Equation could have summed up so much of our reality...? The irony is that all the known core equations have been verified and sitting there for over a century. It's just putting them all together in a unified interconnected system that is new.

It's tempting to propose that the universe is an intersection of three planes of existence (Body, Mind & Soul). But that is a bit too simplistic, not only because the Soul plane encompasses the other two planes, but also the term "plane" itself may not be applicable or even fully defined. It's more useful to think of the system as just a tightly integrated relationship diagram that has dramatic implications.

Using Lorentzian geometry (or whatever geometrical construct dejour) to describe this unified system would be a major breakthrough and lead to advancements in applied physics. That's great but our track record is not good after a century of theoretical research. The insights we get from viewing the whole system itself is much more vital than knowing the geometry of the material world, it's a totally new perspective on ontology. It's who we are and how we operate as human beings.

World history has many dramatic paradigm shifts in the use of language. The spoken word arose roughly 300,000 years ago. The Sumerian invention of written cuneiform in 3100 BC was huge. Then around 1800 BC the Semites in Egypt developed Proto-Sinaitic, an alphabetic script which opened literacy to the masses. The printing press in 1440 further expanded access to information. Then of course we had radio in the 1920's, TV in the 30's, computers in the 80's and the Internet in 90's. Now in the 2020's, the introduction of artificial intelligence is totally revolutionizing our collective and individual brain power. It's all happening at such a rapid rate that we may not be prepared for the inherent cultural impacts. I believe there are language tools available that can offer some worldview clarity in a world drifting into chaos.

A Metaphysical Matrix that is based on physics would be like a Universal Language (UL) for self-realization. This means an individual would now have tools to clearly understand their own archetypal landscape and tendencies and ways to improve their growth on the path to a more sacred humanity. Collectively, understanding and using the UL becomes a perpetual cultural work in progress and a spiritual development process, rather than a static and often hypocritical religious belief. A shared UL framework across cultures and languages also yields new ways for cross fertilization and harmony between those different perspectives.

Why is greater self-realization so important? Clearly, in today's world it's becoming obvious that there are millions of people who are disconnected from any sense of inner reality. They have no capacity to deal with the world based on their own perceptions and experiences. It's all about superstition and echoing the word of religious and political authorities. And this facilitates the degrading of democracy and the rise of dark demagoguery. Sadly, we are all zombies to one degree or another based on how connected we are with our own soul.

But a sophisticated ontological map itself would not be without risk. This would be a huge breakthrough in developing Artificial General Intelligence (AGI) which has huge potential for positive and negative outcomes. While offering individuals great insights into how to develop their spirituality; when exploited by bad actors such as fascist governments, it could also be a way to categorize and judge politically incorrect behavior and to manipulate the masses.

Some Background on my Quest...

Back in 1968, when I was a young student at U.C. Berkeley, I had a notion that there was some kind of universal matrix that could chart out the archetypes that define our human condition. This vision was in the realm of an advanced psychological map that would carry on the work of C.G. Yung. That didn't pan out (see early diagram below) but the germ of the idea still felt valid. I came to the conclusion that if I could better understand the core interrelating concepts in Physics (a "systems" view), that same framework of relationships might be mirrored in a new metaphysics. After 57 years of research and meditation, we have that metaphysics. It's still very much a work in progress (and will always need to be refined over generations). This is a big leap of faith (chiefly for physicists) but a few self-reflective souls might find some resonance with their personal sensibility.

STEPHEN ALAN BRENNER --- April 20, 1970 --- .. © Intent to copyright

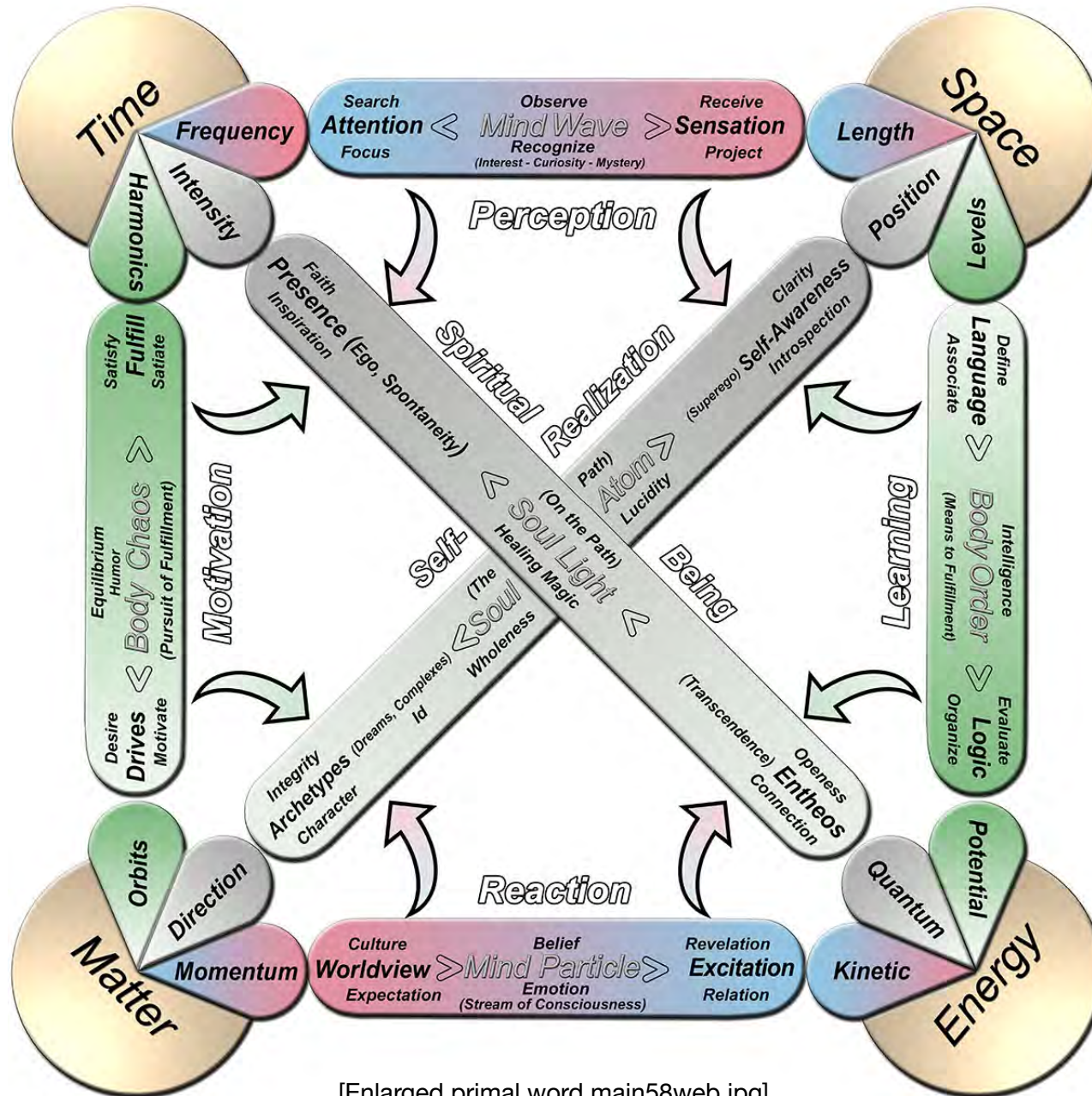
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Conditioning, libido	(B') Duration	Initial Memory, self		(A') Novelty
Differentiation of Time	(D') Intensity	Clarification of Sensation	SYMBOL	(C') Adaptability
Awake vs. Asleep	(C') Recency	Conscious vs. Unconscious		(D') Accuracy
escapism	<u>WANDERING</u>	pain	<u>FREEDOM</u>	ecstasy
ignoring	<u>ATTENTION (B')</u>	Depression	<u>GRATIFICATION (A')</u>	Fulfillment
avoiding	<u>CONCENTRATING</u>	boredom	<u>CAPTIVATION</u>	fascination
fearful	<u>PRIVACY</u>	fashion	<u>INSTINCT</u>	drive
Distrusting	<u>SUGGESTIBILITY (D')</u>	Bias	<u>PERCEPTION (C')</u>	Openness
ashamed	<u>OBLIGATION</u>	tradition	<u>CULTURE</u>	belief
dreading	<u>ANTICIPATION</u>	projection	<u>INSIGHT</u>	introspection
Temper	<u>PASSION (C')</u>	Superstition	<u>DISCRIMINATION (D')</u>	Truth
shock	<u>SURPRISE</u>	indoctrination	<u>INTELLIGENCE</u>	experience
obsession	<u>FANTASY</u>	vehement	<u>INDUCTION</u>	soulful
Despair	<u>IMAGINATION (A')</u>	Nonsensical	<u>CONCEPTUALIZING (B')</u>	Meaningful
worry	<u>EXPECTATION</u>	categorical	<u>DEDUCTION</u>	on-top-of-it
conformity	<u>THOUGHT-STREAM</u>	reluctant	<u>EXPRESSION</u>	enthusiastic
Awkwardness	<u>HALLUCINATION (B')</u>	Dishonest	<u>INTEGRITY (A')</u>	honest
pretention	<u>PERFORMANCE</u>	rationalizing	<u>REPRESSION</u>	conscientious
neurosis	<u>COMPLEX</u>	denying	<u>EMPATHY</u>	accepting
Doubt	<u>INTEREST (D')</u>	Hating	<u>INVOLVEMENT (C')</u>	Loving
weakness	<u>FACILITY</u>	manipulating	<u>EXPERIMENT</u>	playing
Inhibition vs. Excitation	(A') Regularity	Cathexis vs. Catharsis		(B') Organization
Coordination of Association	(B') Directionality	Integration of Levels	IMPULSE	(A') Coherency
Secondary Memory, ego	(D') Momentum	Learning, will		(C') Depth

Early 1970 attempt

Now we can view the matrix with metaphysical correlates.

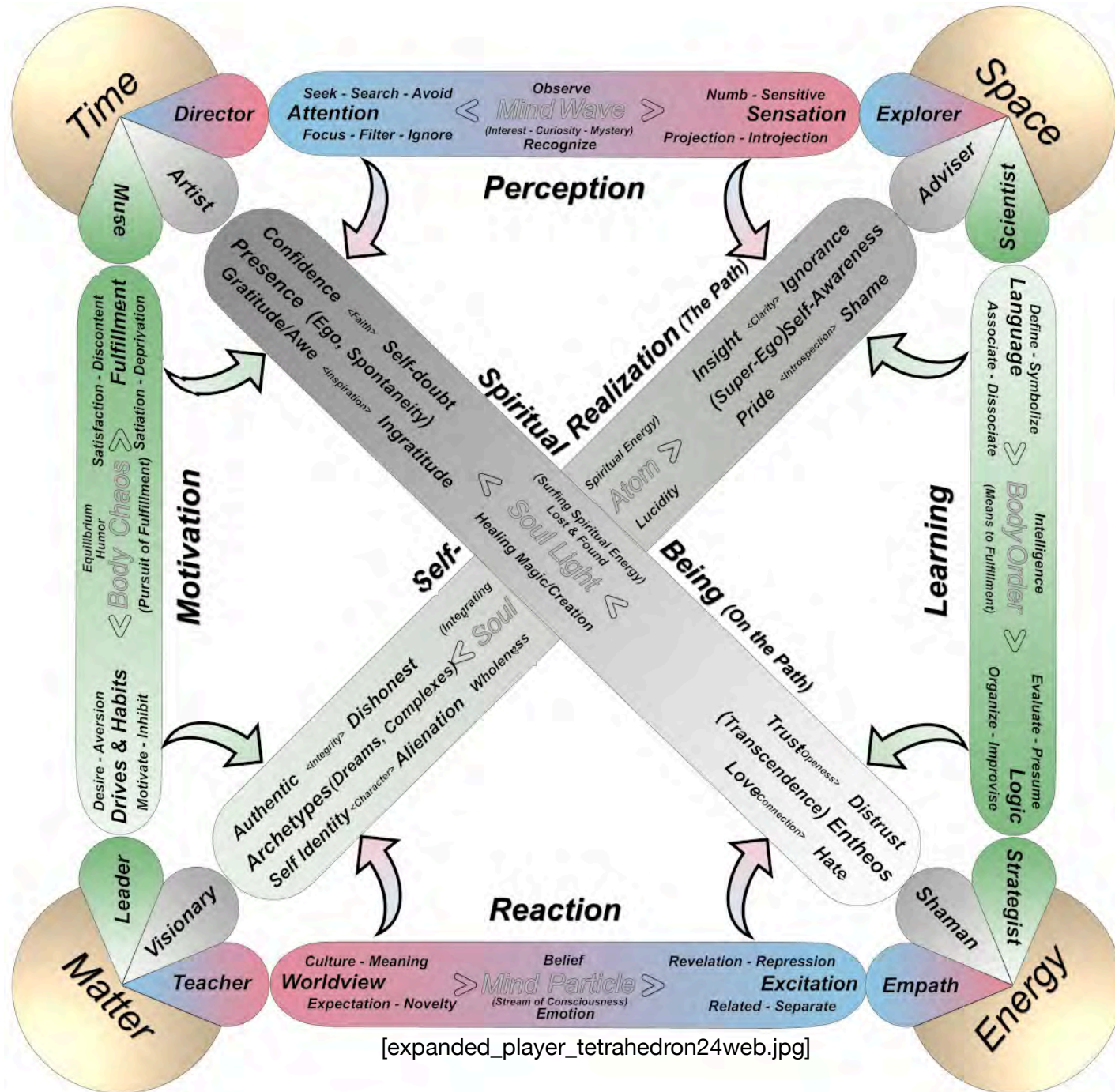
(The relationships mirror those in the physics equations. The “>” symbols in opposite direction indicate inverse relationship, symbols in same direction indicate a directly proportional relationship.)



[Enlarged primal word main58web.jpg]

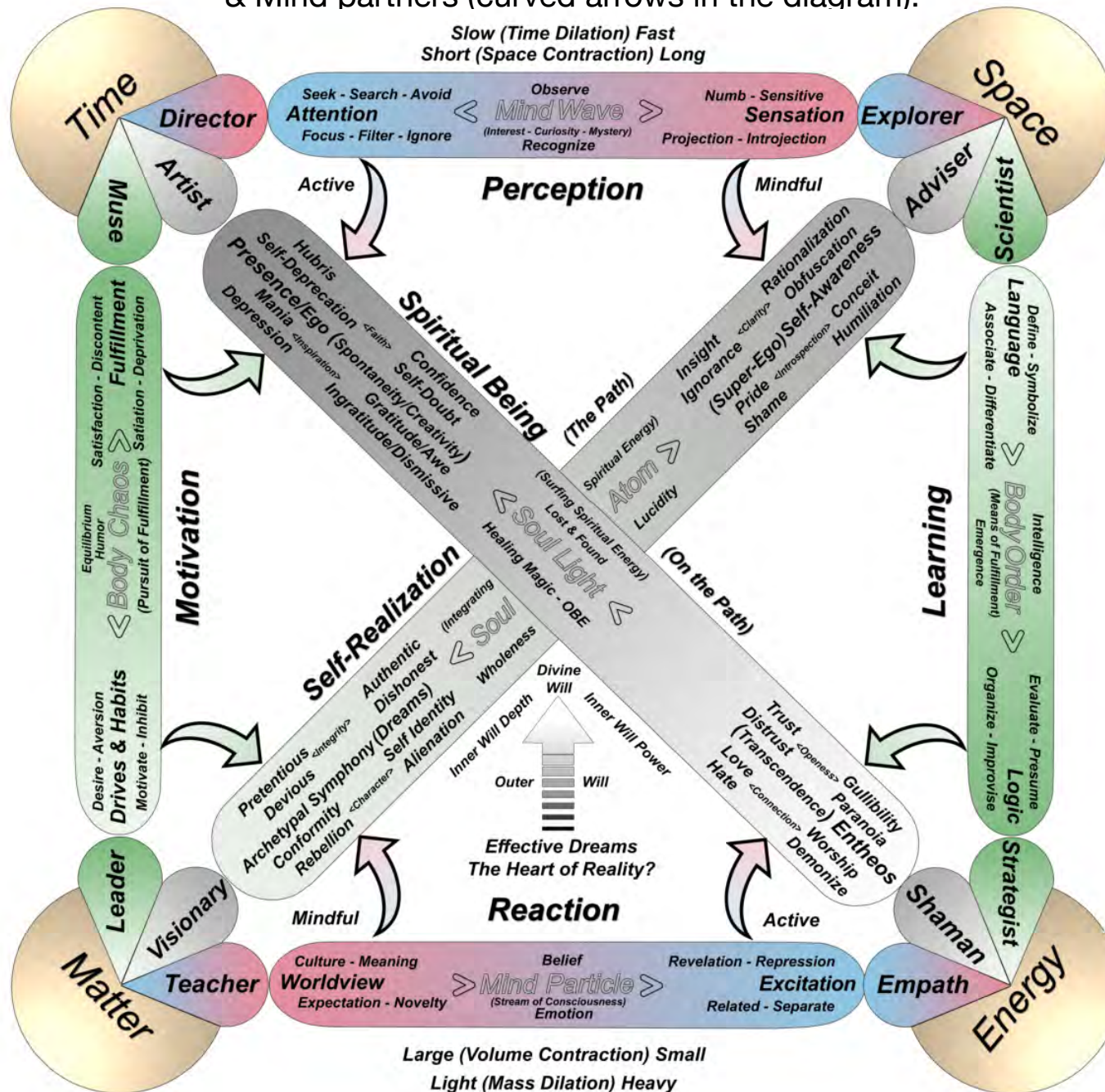
We expand with plus/minus and add Archetypal Characters.

(The Archetypal Characters represent the various core aspects of ourselves.)



Finally, we add healthy/unhealthy traits.

Notice that the core Soul relationships (the gray dualisms) are primary. They are being moderated by Body & Mind partners (curved arrows in the diagram).



A New Mythology?



Seems like a major dichotomy in Theology has been the contrast between Monotheism and Polytheism (other than the eternal tension between Gnostic journeys and institutionalized religious dogmas). When you step back, you can see how both approaches are totally compatible. With Monotheism there is one Divine Creation, with the universal laws of physics that govern the universe. And extrapolated from those laws are the metaphysical laws that are reflected in our own human ontology. So just as we see Greeks and their Olympic Pantheon, Hindus and their deities, Jews with their Kabbalah, and astrologers with their astronomical influences, and even Tarot, there is an attempt with our metaphysics to chart the archetypal characteristics and understand how their relationships define our existence.

Our modern archetypes are not coming from an external source. We have our own personal pantheon of demigods (our past life energy centers) and we potentially have a direct connection with the Divine Spirit. Prior to passing over, the unconscious gives us a dream connection to this mindscape. In the afterlife, it's where a process of reincarnation happens, resolving inner and outer karmic influences to “collapse the wave function” into a new body. But outside of this, we know very little about this realm. You can directly go there via an out of the body experience but I'm not sure how much that can tell us about the ontology. We can only speculate about what that realm must be like. At a primal level, life is about spirit embodying itself in and influencing matter.



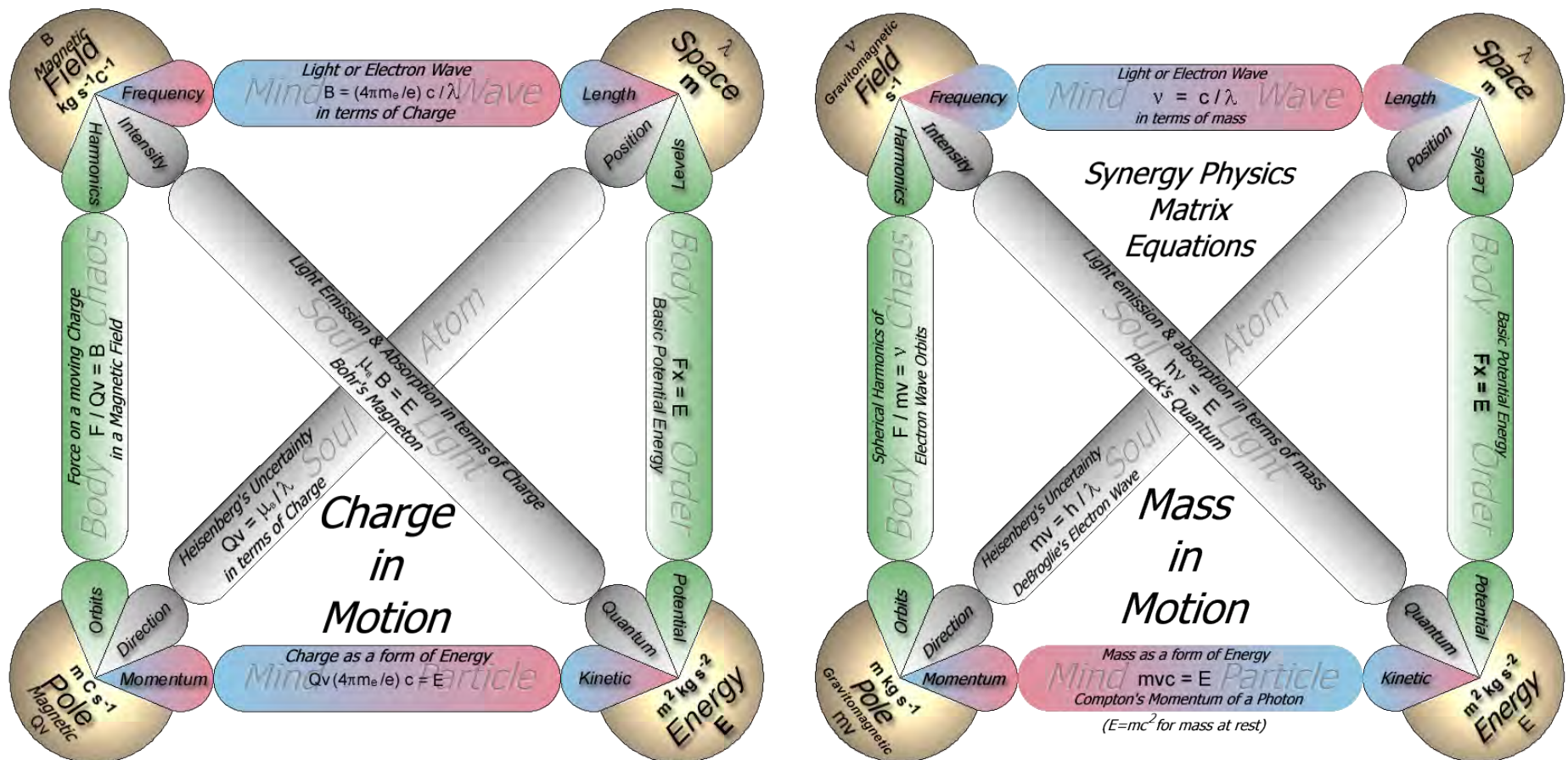
Speculations on Life

Those billions of years of evolution were evolving archetypal life patterns. The ultimate goal: reflect the best of our spiritual origins. It's not only a gift to earthly creatures, it's also a blessing for the spirit. Physical beings on our plane of existence are stable entities that can help to literally ground the multi potentialized spirit self and provide satisfying physical expression. So becoming a vessel for the spirit is the goal for both spirit and matter. Is the physical form more real than the spiritual source that literally projects it into the world? I doubt it, but we tend to fall into that mode of thinking.

To step out even further, we can speculate that there could be a whole continuum of planes of existence with varying ratios of matter to spirit. A higher plane would be less physical and less dimensional (more 2D shape shifting like movies or dreams) and the consciousness is enhanced by being capable of transcending time/space (where past, present and future lives coexist). That would be pure consciousness-spirit without a body as we know it. Going back to our Synergy Physics diagram the same relationships may exist but the physical portion might be more of a fluid virtual body. It's hard to imagine levels on that continuum above the afterlife... What about in the other direction, would a black hole with it's compressed, highly dense physical plane (where time does not exist and space is infinitely small) be part of that continuum? Sounds a bit too dense for my taste but maybe it explodes into new life somewhere else. And then there is one more thought...

What about these Ontological Twins?

The Diagrams of Mass-in-Motion & Charge-in-Motion are quite symmetrical. The only difference between the Planck constant and the Bohr Magneton is the Charge-to-Mass Ratio of the electron (the Gyromagnetic Ratio). Magnetic Field & Pole definitions are the models for the Gravitomagnetic Field & Pole definitions. Are we defining two similar ontologies on our spirit/matter continuum? Each one would be an intersection between spirit and matter while being on a different spot in the continuum. But since the Charge realm still has 3 states of Time, Space, Matter and Energy it can't be a realm beyond our time/space. Could it be more like an interface between the micro and macro world? Isn't life (the biosphere as we experience it) a gossamer thin layer surrounding earth, and an intersection between the Astronomical and the Micro? We can only speculate on the nature of life at the level of solar systems and beyond nor at the subatomic level.



What's Next?

In terms of improving the presentation of the theory, the logical next step is to bring it to life with a story based concept where one could vicariously observe the human ontological dynamics at work.

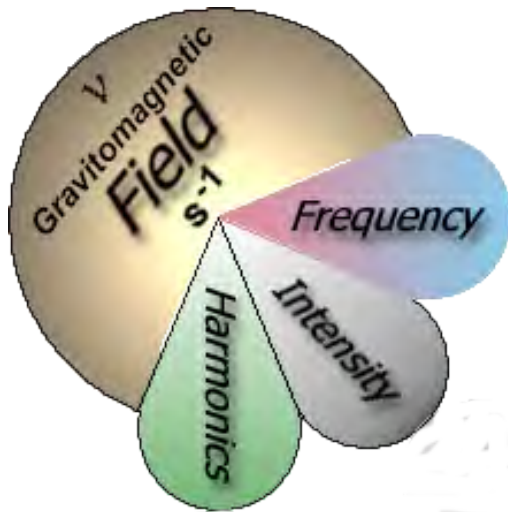
As a dream worker, I feel that if we can use this language as a map and guide to understanding our dreams, that would be a very healthy first step. The dreams provide the stories that are anchored in the mystery of who we are. When we unravel the mystery, we unfold the potential to be our best selves.

Ultimately I would like to develop an educational game that would aid in learning this universal language of human ontology. Perhaps allow the user to customize their own archetypal characters to match their own self-identity and experience. Frankly, the task of clearly defining these archetypal ontologies is going to be gradually developed over generations, and since it is intimately connected with how we define what we envision as our idealized Divine pathways, the discovery process is really never-ending.

I have a feeling that theoretically, we are all inherently a version of young Parsifal. Our wounded selves may be different, but we can all share the process by which we journey to our full potential.

So if any of this resonates, let me know at sbrenner@archetype.org.

What about that Pesky Gravitomagnetic Field?



“How wonderful that we have met with a paradox. Now we have some hope of making progress.” Quoted in R. Moore, Niels Bohr: The

A weak GEM force acting within an astronomical context is not supposed to exist within the Quantum Realm. How do we get around this widely held assumption?

Our concept of gravitomagnetic field takes on different forms based on whether it's in the Physical, Mental or Spiritual realm so we don't have to be rigid regarding a single mode of functionality. This multifaceted field is the notion of “Field Frequency” or “Time” in the Time-Space General Theory of Relativity equation. But it is also the “Field Intensity” in the Planck equation with Quantum Energy, as well as the “Field Harmonics” in the spherical harmonics equation with Gravitomagnetic Pole.

