

Insights from the Middle Ages?

In modern physics, the discovery of a Unified Field Theory 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 again fails to ask the question. Traditional exoteric religious interpretations 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.

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 by mere humans. 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?



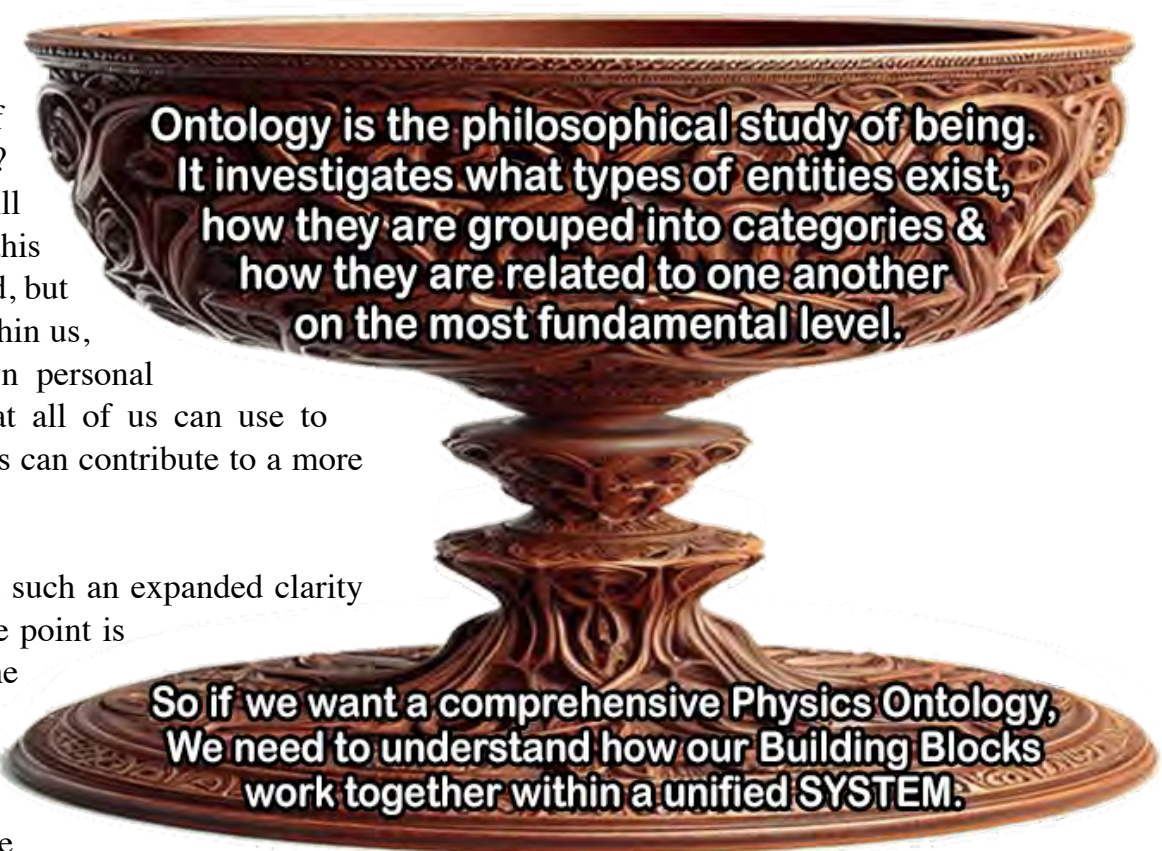
Ontological Expectations

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 their version of god, 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 culture and reality.

It does sound preposterous to propose that one could attain such an expanded clarity and awareness from the just bare physics equations. But the point is that these laws of physics, which govern our existence at the atomic level, happen to be a pattern that is retained all the way up at 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.

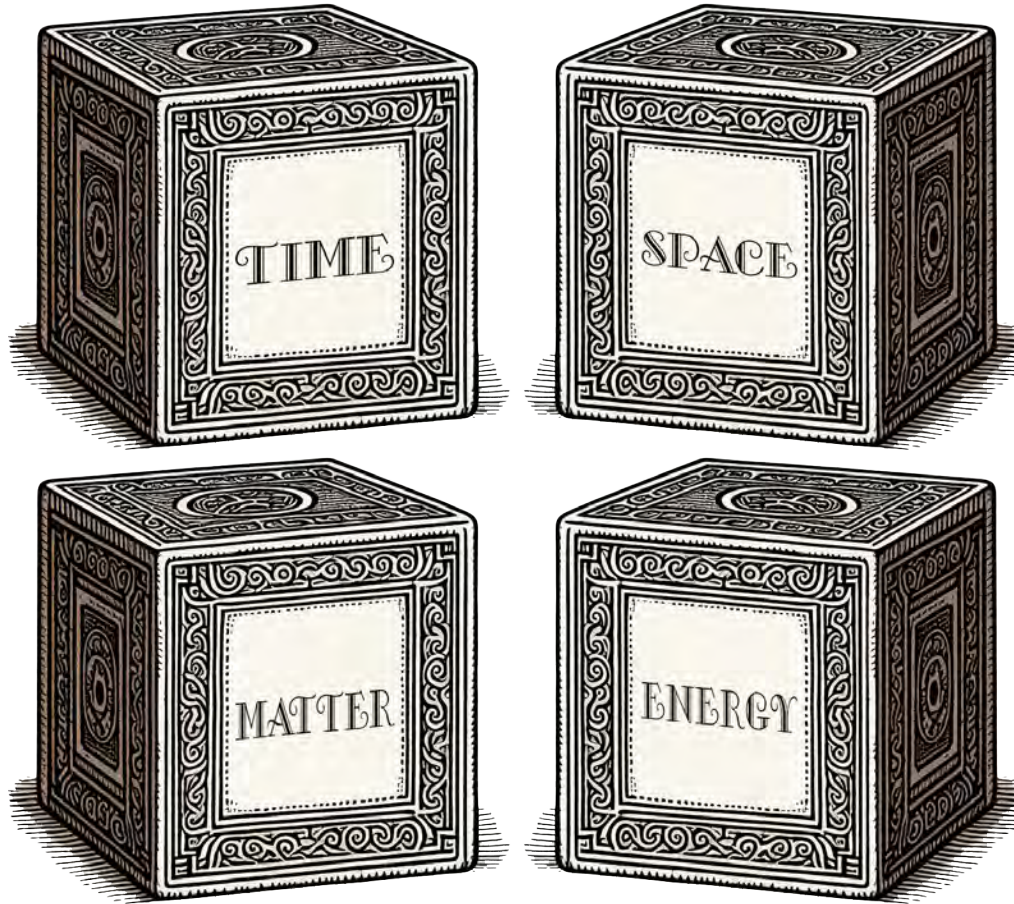
So if we want a comprehensive Physics Ontology, We need to understand how our Building Blocks work together within a unified SYSTEM.



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!

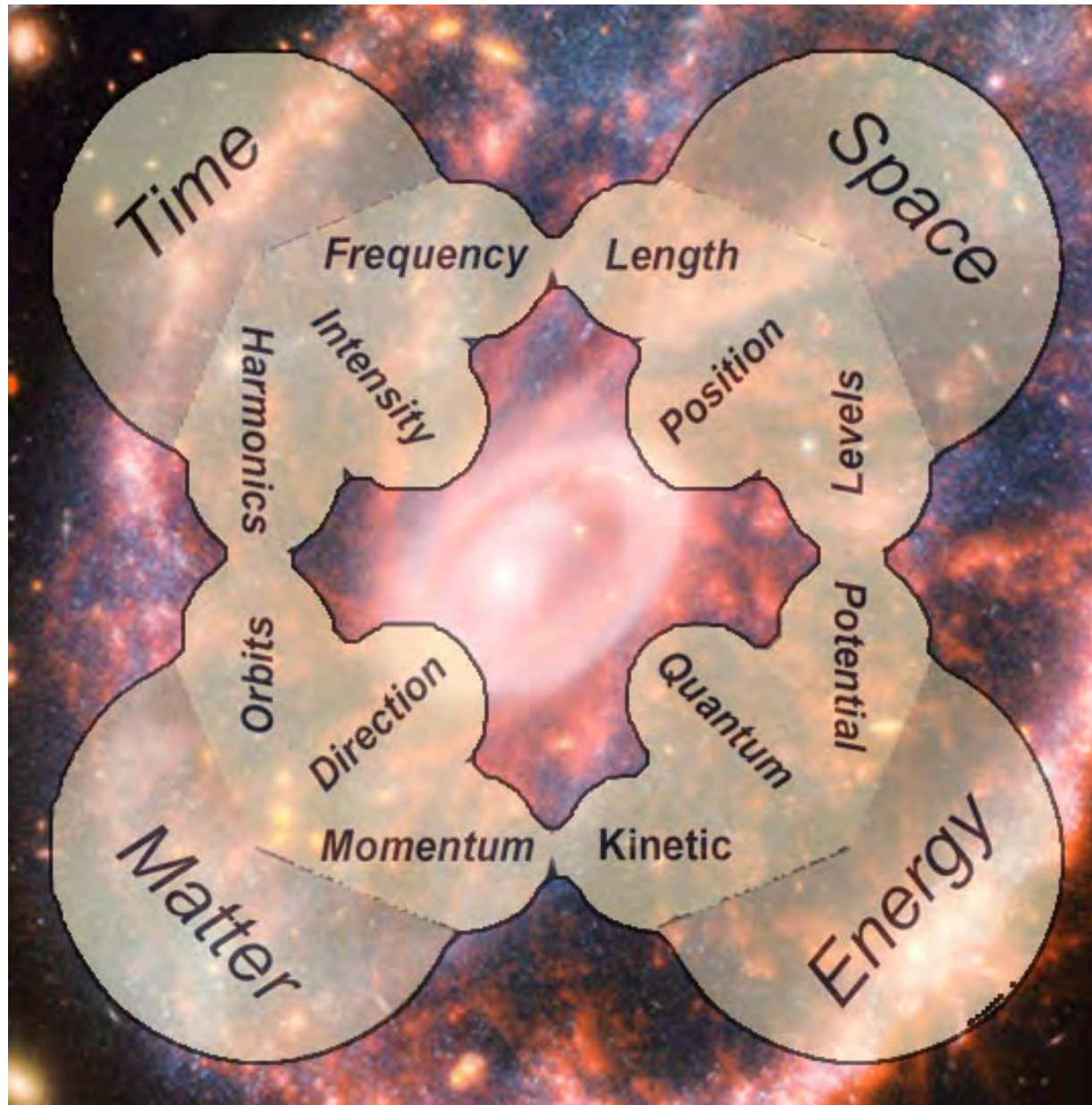


Using the International System of Units

Surely our building blocks must have some fundamental interrelationships...

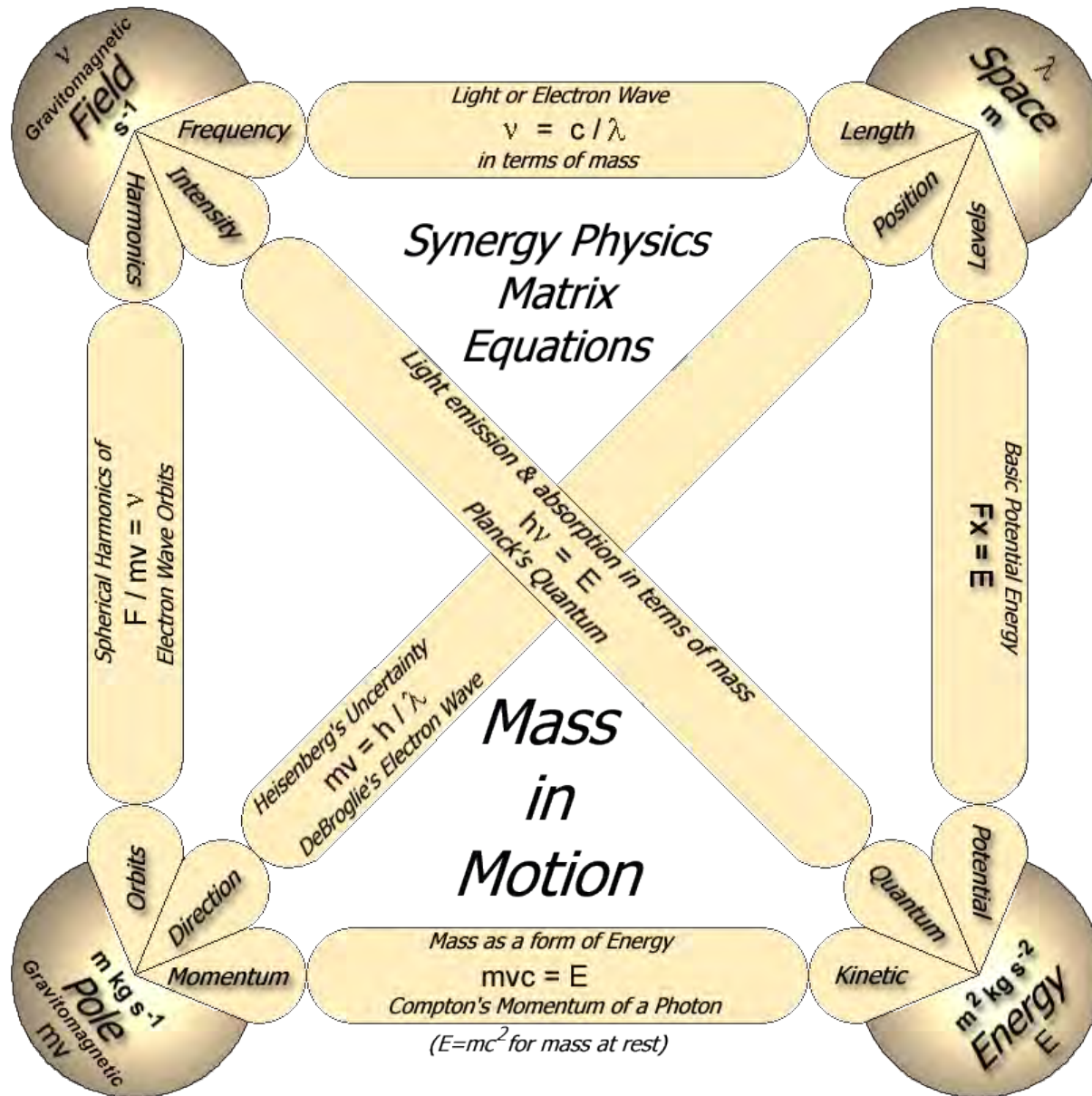


Establishing Matrix Connections



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

Add the Physics Equations



Equations look familiar?

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 for our traditional reductionist theoretical physicists. That is just the only language they know.

Our Synergy Physics model gives an extremely simple system overview of how the core elements fit together in basically what describes Einstein's Photoelectric Effect. We know the individual equations have been verified for over a century, it's just putting them all together in a unified interconnected system that is a new perspective.

Probably the key piece of the puzzle that was missing was to undervalue the notion of a gravitomagnetic field. This multifaceted field is the notion of "Time" in the Time-Space speed-of-light 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.

What our model tells us is that while the Photoelectric Equation describes three forms of Energy, all of our core building blocks of Time (field), Space, Matter & Energy have three distinct forms based on whether we are talking about the Body, Mind, or Soul realm.

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

Knowing the nitty gritty mathematics/geometry of this unified system would be fantastic if you could figure it out. It would be a major scientific breakthrough and lead to advancements in applied physics. But as wonderful as that is, we aren't very close to it after a century of theoretical research. And perhaps the insights one gets from the whole system itself is something much more than a breakthrough in physics, it's a totally new perspective on ontology and who we are as human beings.

The basic premise of Synergy Physics is that while it describes reality at the atomic level, that same system of relationships between Body, Mind & Soul is also reflected in the ever more organized and sentient gathering of atoms in life forms such as humans and our partners in the biosphere. It describes how we operate as living beings. It would describe the relationships and transitions between our Physical, Mental, and Spiritual aspects. I can't help but think that if we had that metaphysical ontological map it would massively expand our potential for self-realization.

If the theory is correct you might say that the Metaphysical Matrix would be more like a Universal Language for self-realization.

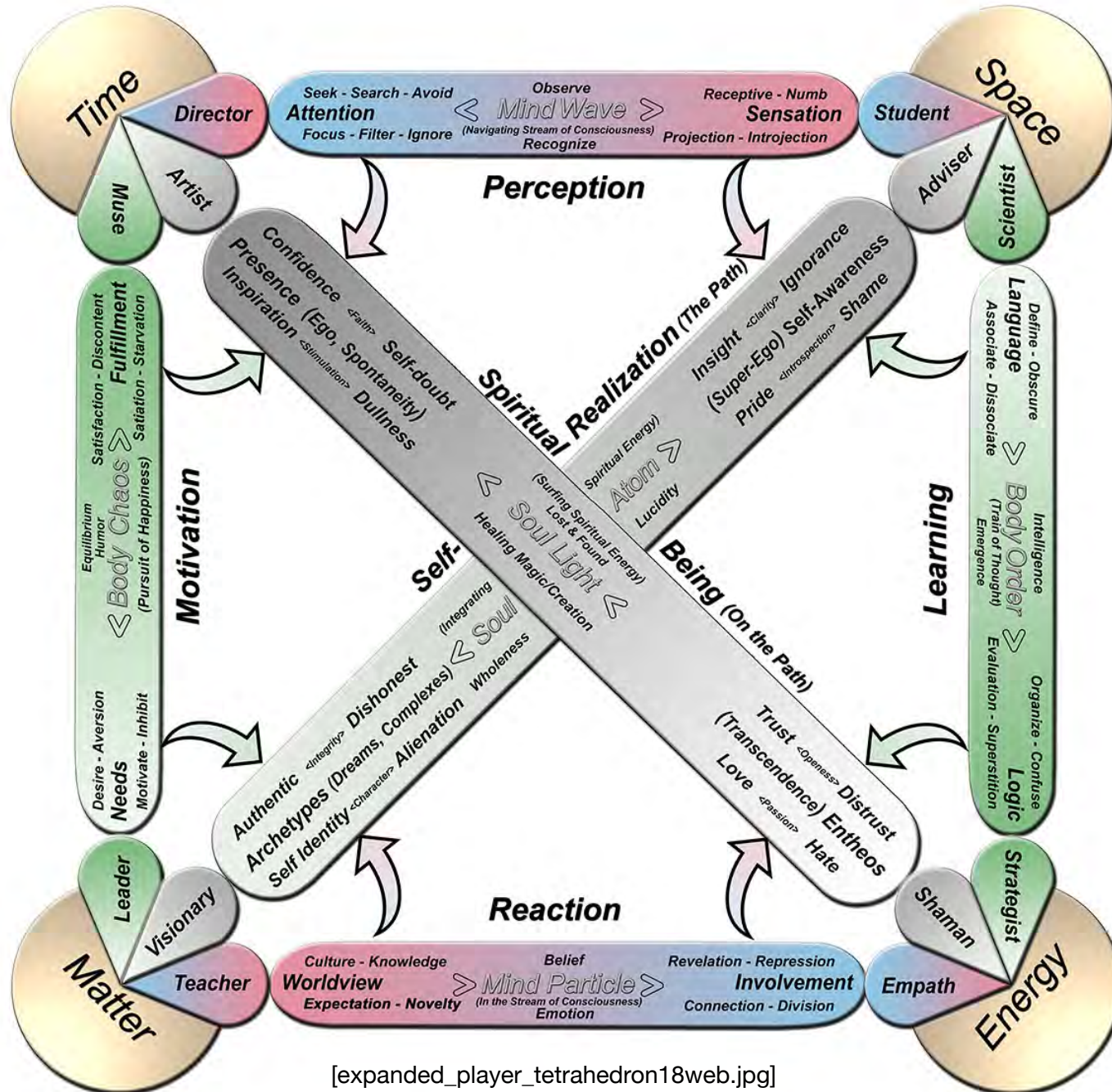
That's a pretty tall order, but if we don't even open ourselves up to the potential, how will we ever get anywhere close to fulfilling it

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. I worked on that theory for several years with very little success but felt that the germ of the idea was still valid. I finally 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 up the evolutionary hierarchical levels of organization to the human level in a new more meaningful Metaphysics. Over 55 years later and a lot of meditation, I've developed that Metaphysics. It's still a work in progress but is ready for collaborative enhancements.

We expand with plus/minus and add Archetypal Characters.

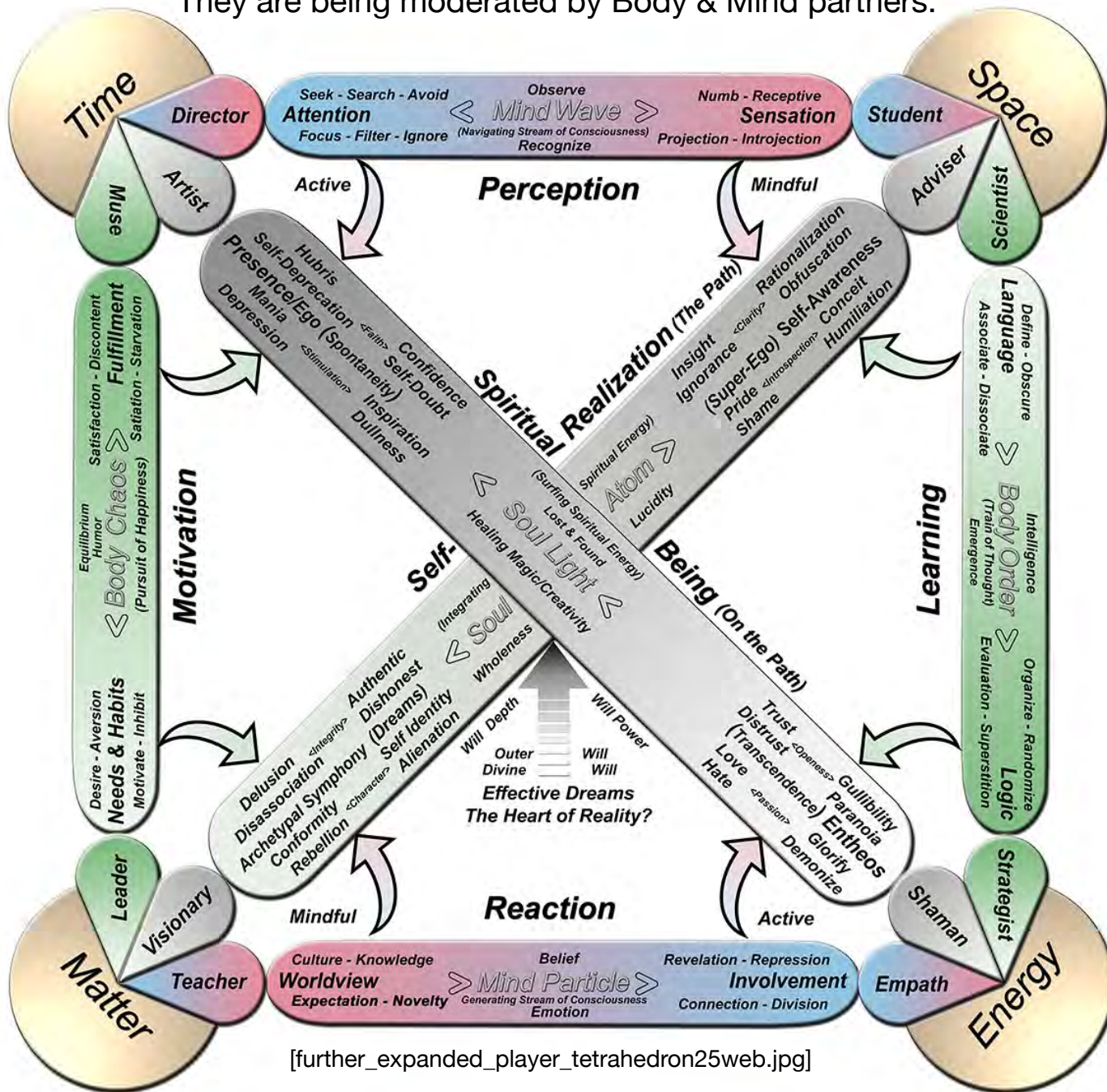
(The Archetypal Characters are the various core aspects of ourselves.)



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Finally, we add healthy/unhealthy traits.

Notice that the core soul relationships are primary. They are being moderated by Body & Mind partners.



What's Next?

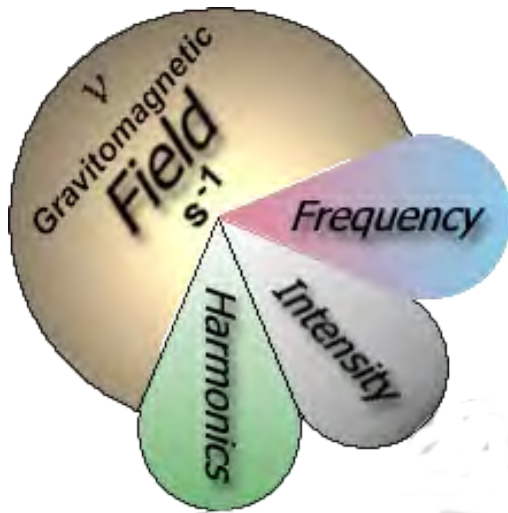
As a dream worker, I feel that if we can use this language as a map and guide to understanding our dreams, that would be a very healthy first step. The dreams provide the stories that are anchored in the mystery of who we are. When we unravel the mystery, we unfold our best selves.

In terms of improving on 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.

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?



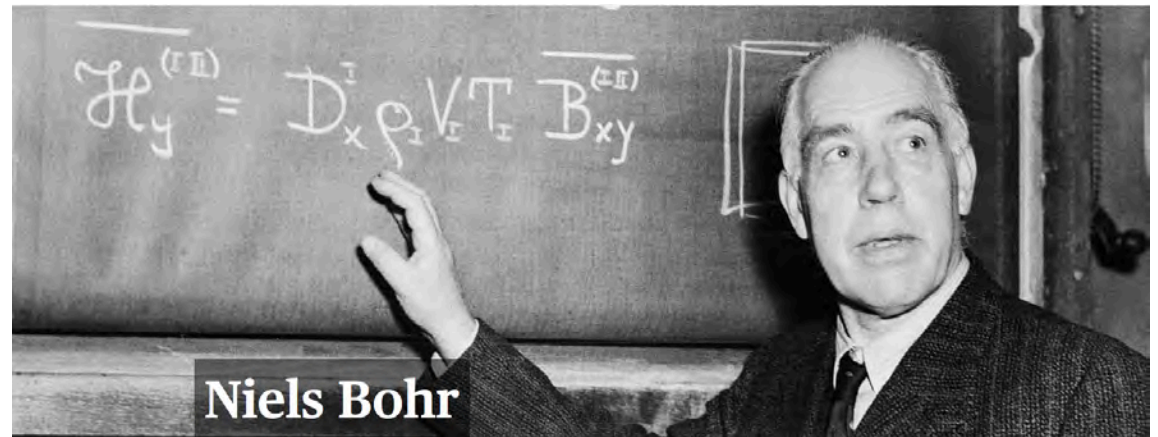
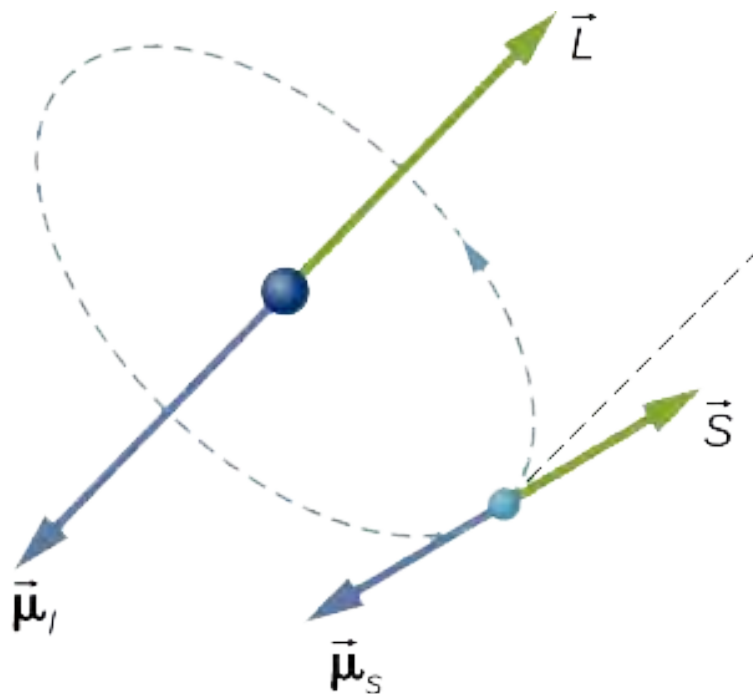
“How wonderful that we have met with a paradox. Now we have some hope of making progress.” Quoted in R. Moore, Niels Bohr: The Man and the Scientist (1967)

The theory of general relativity states that the observed gravity effect between masses results from their warping of spacetime. So it makes sense that our wave equation is talking about a GEM field/space unity. But when we see it as part of our Planck Quantum Equation, hackles are raised. 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?

I touched on this earlier in that our concept of gravitomagnetic field takes on different forms based on whether it's in the Physical, Mental or Spiritual realm.

The mass of the spinning electron creates the angular momentum that controls the shape of the probability density (orbital) of an electron, while the charge creates the magnetic dipole moment that determines its orientation. These are core quantum phenomena that work in unison. According to the laws of quantum mechanics, spin angular momentum is not only quantized in magnitude, but in orientation relative to the z axis in physical space. Therefore, the vector representing spin can only assume certain orientations relative to the z axis in spin vector space.

How can we ignore the effects of gravitomagnetism at the quantum level...?



Niels Bohr

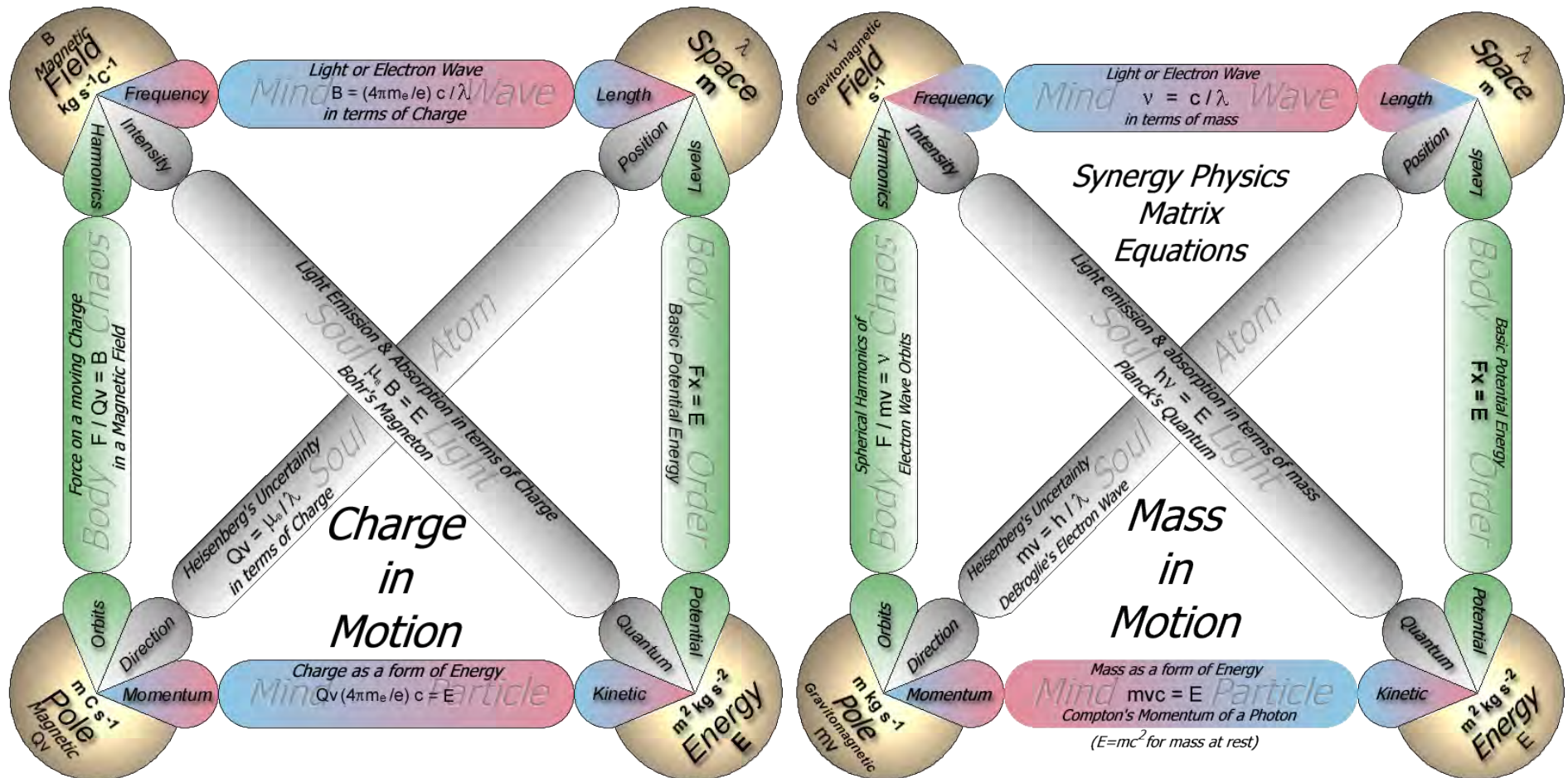
Could our paradox lead to some fascinating implications about the nature of space/time and the unification of General Relativity & Quantum Mechanics?

We just need to ask the right questions.

Twins at Birth?

For me, in a most general way, it points to the notion that both mass in motion and charge in motion are just two sides of the same quantum mechanics.

One sign that indicates this is the fact that the only difference between the Planck constant and the Bohr Magneton is the charge to mass ratio of the electron which we also call the Gyromagnetic Ratio. The two constants are apparently attached at the hip and so are mass & charge for the electron.



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 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.

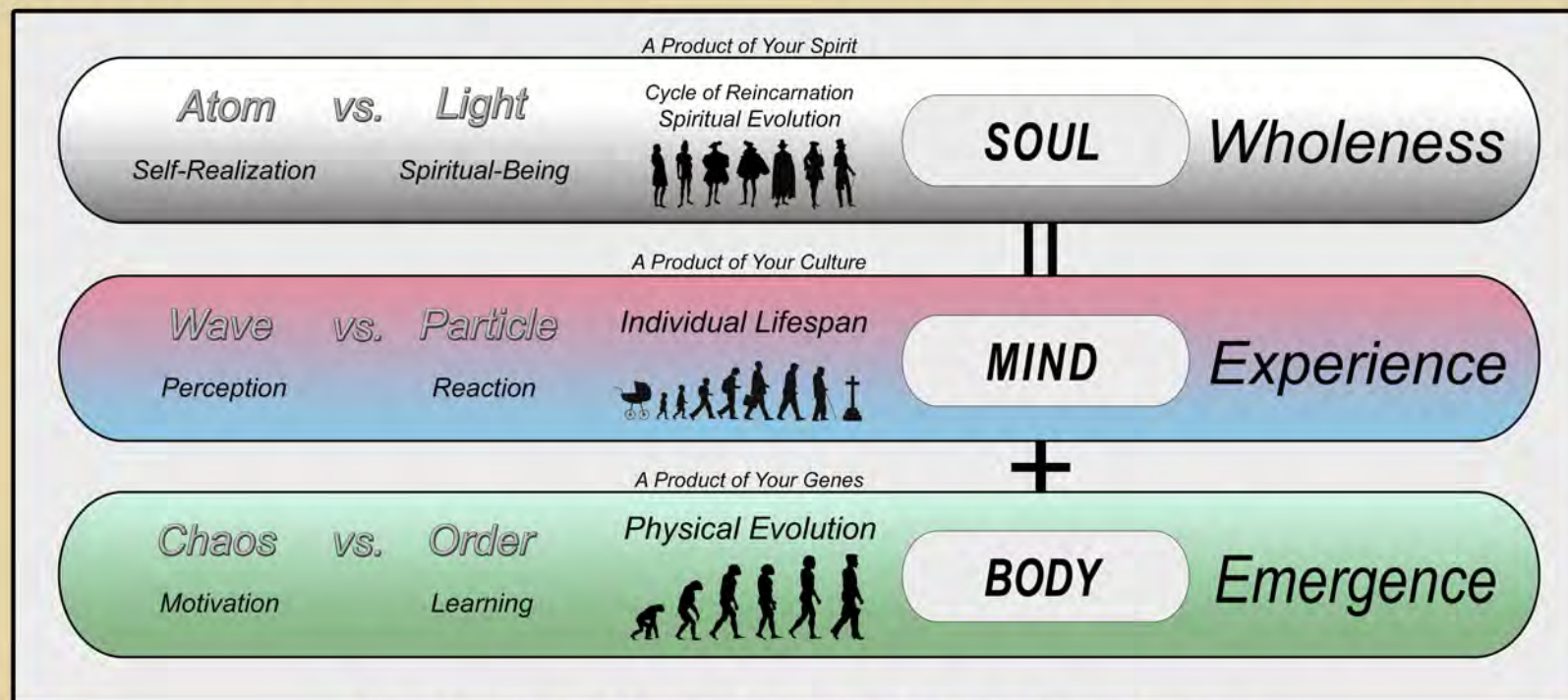
What is most interesting is that the whole Body/Mind/Soul relationship is summarized in Einstein's Photoelectric Equation:

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

(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*