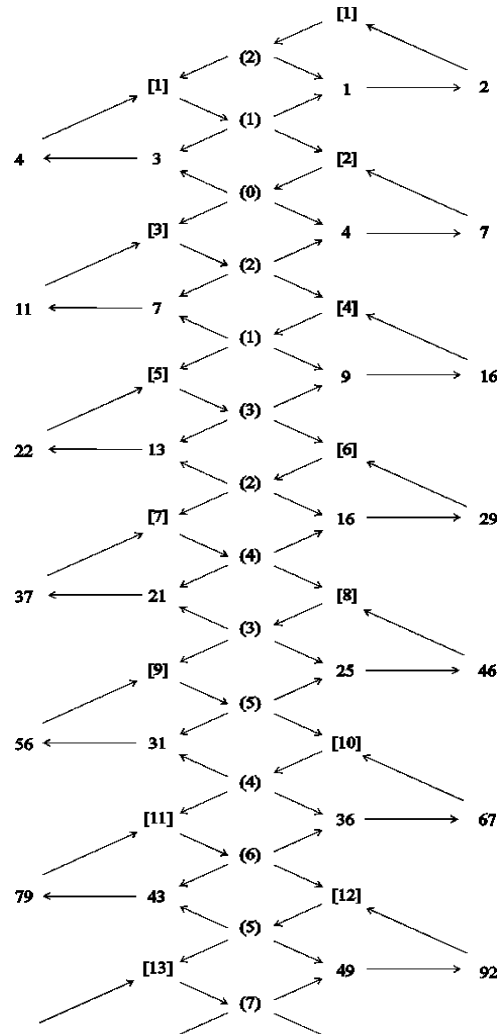


# The Logic of the Universe

## (Debunking Physics and Discovering the Theory of Everything as the Paradigm of Science)

Stephen Mooney

*"With the best analogy, and observation, you can understand everything."*



*"The irrefutable conclusion is that the construction of biology is inevitable, and that humans exist an infinite number of times through-out the Universe."*

## Debunking Physics

It was always the case that I needed to understand the broader context within which we exist. Without that understanding there would only ever be a limited knowledge of everything. I sought the most fundamental and rational and scientific ground from which to explore the nature of the Universe. Through exploring the interpretations of physics, I soon realized that it was a paradigm with limited explanatory capacity. You could rightly say that from the very moment I conceived of physics as an abstractionist paradigm, it was the beginning of the end of the belief in the infallibility of its interpretations.

Establishment physics, with its unquestioning commitment to mathematics and measurements, is an abstractionist paradigm that fails to adequately represent the strictly materialist and logical nature of the Universe because it's not a truly fundamental perspective. I accept all scientific evidence. However, I interpret all evidence in accordance with a truly fundamental and materialist and logical scientific perspective of the Universe.

As evidence is the central concept of science, what is evidence? We know the Universe through observation, and we interpret that observation with a perspective that we have either acquired or invented ourselves. To invent is to discover an inherent potential. To believe that observation is, in and of itself, evidence, is naive realism. Evidence is the best interpretation, or explanation, of observation. If you have the best explanation in one area of observation, then through logical consistency you can generate explanations in other areas that have scientific validity without the need for further observation.

If you believe that science can only involve those things which can be measured or directly observed, then you should not proceed beyond this point. I suggest you go away and measure something.

Gravity is the fundamental force of the Universe. The latest thinking by establishment physics is that gravity is caused by the exchange of particles called gravitons. These particles are seen as travelling through what is assumed to be empty space. This exchange of gravitons theory is inadequate.

All attraction is caused by the absorption of emission, which involves the exchange of emission between objects. There is no more fundamental, materialistic, and scientific explanation for attraction than the absorption and exchange of emission.

The two nuclear forces, the electrostatic force, and gravity have the same mechanism. Establishment physics sees these forces as separate. Establishment physics is wrong. Everything, from the smallest possible sub-atomic particle to the largest possible galaxy, absorbs and emits what can be described as emission or radiation or energy or light.

What is assumed to be empty space is composed of the emission (radiation or energy or light) of everything. Emission travels through interaction with emission, and can be detected as wavelengths. These wavelengths are constructed through the convergence of different levels of emission. Establishment physics does not ask, let alone answer, the question of how the detected wavelengths are constructed. Emission disperses as it travels across the Universe through encountering the decreasing density of impacting emission. This results in the detection of the increasing wavelength of the emission from galaxies and stars.

For some, the fact that emission can be detected as both a particle (a photon) and a wave is inexplicable. However, this dual nature is resolved once you see a wave of emission as composed of dispersing or de-constructing particles and a particle as a fusion or construction of emission which is made of matter and as having an emission field. If a photon was not made of matter then it would not leave an impression upon screen when projected towards the screen. The idea that emission (light) is massless (matterless) is not a fact but a mistaken assumption of the abstractionist paradigm.

We do not see through an otherwise empty space. We see with space in the sense of the emission of objects, in the form of their image, traveling through the emission that is space and impacting upon our retinas and being processed by our brains. The idea that the space between us couldn't be composed of matter, because we wouldn't be able to see through it, is another example of naive realism.

As emission travels through interaction (absorption and emission) with emission, its speed is relative to the density of the emission through which it travels. It could not possibly have a specific speed throughout the Universe as claimed by establishment physics. If you measured the speed of light at a distance above the surface of the Earth, where the emission field is less dense than at the surface, it would be greater than at the surface. The fact that the difference would be very small and not readily measureable is beside the point. It's merely an assumption on the part of the abstractionist paradigm that the speed of light is universally constant. The abstractionist paradigm has an inadequate understanding of how light travels. The measurement called "a light year", has no scientific validity.

The Earth is attracted to the Sun through absorbing the emission of the Sun via the Earth's emission (gravitational) field. Everything, from the smallest particles to the largest galaxy has an emission (gravitational) field. Part of the emission absorbed by the Earth's emission field, reaches its core and helps to maintain the core's active state.

In 1954 a French economist named Maurice Allais observed that a pendulum moved faster during a solar eclipse. This has become known as the "Allais Effect", and has been unexplained by physics. When the Moon is in front of the Sun it blocks part of the gravitational field of the Sun resulting in less absorption of emission by the gravitational field of the Earth. This slight reduction in the density of the gravitational field of the Earth results in less downward attraction of the pendulum allowing it to swing faster.

The gravity of the Earth would also be reduced when it's at its farthest distance from the Sun during its yearly orbit. If you wanted a "gravity assist" in obtaining a high or long jump record, do it when the Earth is at aphelion on the 3rd of July and during a solar eclipse.

It has been observed that the rotation of the Earth is decreasing, and that the distance between the Earth and the Moon is increasing. Establishment physics claims that the decrease in the rotation of the Earth and the moving away of the Moon derives from a tidal bulge in the Earth. It's claimed that as the Earth tries to drag this bulge along its rotation is decreased, and that this loss of angular momentum is transferred to the Moon lifting it into a higher orbit.

The only way that the decrease in the rotation of the Earth (the loss of angular momentum) could cause the Moon to move away would be if the rotation of the Earth was responsible for the Moon's distance from the Earth in the first place; which is not the case.

Is the Moon moving away from the Earth due to a decrease in the density of the Earth's gravitational field? Is it due to an increase in the density of the gravitational field of the Sun? Is it due to a decrease in the density of the Moon's gravitational field?

Establishment physics accepts that gravity involves acceleration and not merely uniform motion. However, it offers no explanation for why this should be the case. With the absorption of emission explanation, absorption leads to increased matter that results in increased absorption capacity, and it is this that underpins the fact that gravity involves acceleration and not merely uniform motion.

I came to the absorption of emission explanation of attraction through conducting a simple electrostatic experiment. When I rubbed a glass rod it attracted a suspended pith ball. Establishment physics sees this as being the result of unlike charges attracting, and offers no explanation of how this comes about. I decided that rubbing the glass rod increased the emission of the rod and that this emission was absorbed by the pith ball resulting in the attraction.

If the glass rod were not rubbed, it would still have emission and could still attract a pith ball through the pith ball absorbing the emission.

Absorption and emission is the mechanism that underpins the abstractionist concept of charge, so that as an explanation it's more fundamental (and superior) to that offered by establishment physics, despite the fact that it can't be measured.

Establishment physics also states that like charges repel. Once again, no explanation of how this comes about is put forward. Here I decided that like charges involves equivalent levels of emission, and that objects of equivalent emission repel each other by pushing away from each other via this equivalence of emission. Yes, "I decided". Someone had to, given the obsession that establishment physics has with measurement.

This leads to the conclusion that only objects of inequivalent emission can be subject to attraction. This attraction occurs through the emission of each object being absorbed via the emission (the emission field) of the other: the exchange of emission.

It was from this foundation that I realized that everything is either a state of absorption exceeding emission, or of emission exceeding absorption. They are either increasing or decreasing in matter, and either increasing or decreasing in emission. The idea of static, inert matter has no part to play in explaining the dynamic nature of the Universe. The Earth is a state of absorption exceeding emission, whereas the Sun is a state of emission exceeding absorption.

The Earth increases in matter over time, through the absorption of emission, and this sees its emission increasing over time. As a consequence, the gravitational field of the Earth increases in density over time.

The Moon's movement away from the Earth can't be accounted for by a decrease in the density of the Earth's gravitational field. Equally, it can't be accounted for by a decrease in the density of the Moon's gravitational field. The only possible explanation is that the emission of the Sun is increasing and exerting a greater attraction over the Moon relative to that of the Earth.

The rate of rotation of the Earth is decreasing. Increased gravitational attraction between the Earth and the Sun, due to the increase in the emission of the Earth and the Sun, accounts for the decrease in the rotation of the Earth. This can also be seen as caused by inertia.

Establishment physics defines inertia as "the property of a body, proportional to its mass, which opposes a change in the motion of the body." (Larousse, Dictionary of Science and Technology, 1995) You will notice that inertia is presented as a "magical" property of matter. Physics offers no explanation of the mechanism that causes this "magic" to exist. Every example of inertia is an example of attraction acting on a body. A body on the surface of the Earth opposes a change in its motion due to gravity attracting the body downwards. The mechanism of inertia is, therefore, the same as the mechanism of gravity, i.e. the absorption of emission. John Gribbin, in his *Companion to the Cosmos* (1996), states that, "It is a curious and still not fully explained phenomena that ... inertial mass and gravitational mass ... are always exactly the same..." It's now fully explained.

Establishment physics sees the Sun beginning through the accumulation of matter attaining critical mass and igniting. Apart from small variations in its emission due to such things as Sun spot activity, establishment physics sees the Sun's emission remaining uniform over time. This is wrong.

The emission of the Sun has steadily increased while its matter has steadily decreased, and its gravitational attraction capacity has increased. This stands in contradiction to the abstractionist

paradigm that would say a decrease in matter (mass) would result in a decrease in gravitational attraction. Wrong again.

It's my theory that stars involve two stages of development. The first stage entails absorption exceeding emission and the construction of the heavy elements. This first stage sees stars take the form of a solid planet. This is followed by the star/planet attaining critical mass at its core and igniting into a second stage of emission exceeding absorption where the constructed elements are consumed in the process of the star. Second stage stars end with dissipation. First stage stars can explode through the impacting emission increasing to the point of precipitating a nuclear explosion.

It's simply not possible for either a first or second stage star to collapse under the increase in its own emission (gravity) and form a blackhole. The theory of blackholes is rubbish. The blackhole theory is derived from seeing gravity as being caused by matter, in and of itself, with a complete absence of an explanation of the mechanism of the cause. The exchange of gravitons theory was an attempt to give gravity a mechanism of cause.

The two stages of a star theory was derived from the realization that pressure can't be applied to a body which is a state of emission exceeding absorption, and as the bursts of gamma radiation needed to be accounted for, that lead to the two stage theory. So, the bursts of gamma radiation detected from all directions in the cosmic sky are first stage stars exploding due to the increasing density of the impacting emission.

A matter that further demonstrates the inadequacy of the physics establishment involves the variability in the rate of atomic decay. An experiment conducted by J. C. Hafele and R. E. Keating in 1971, measured the rate of decay of two identical atomic clocks. This involved placing one clock on the surface of the Earth and the other in an airplane above the Earth. The clock in the airplane ran faster than the clock on the surface of the Earth. The clock in the airplane was subject to less density of impacting emission than the clock on the surface of the Earth. As the density of impacting emission increased the rate of atomic decay decreased. This indicates that the stability of matter is relative to the density of the impacting emission. Atomic decay is an extreme case of emission.

The physics establishment interprets this experiment as demonstrating the variability in time, because they see time as an independent dimension and space as empty. Time is the measurement of duration, and the process of real material things. It's not a thing-in-itself. To treat time as an independent dimension and a thing-in-itself, is to commit the fallacy of reification or misplaced concreteness.

Jere Jenkins, the Director of the Radiation Laboratory at Purdue University, has observed that the rate of atomic decay varies with the yearly orbit of the Earth around the Sun. When the Earth is at it furthest point from the Sun (aphelion), the rate of atomic decay is increased. It's obvious that this occurs because the density of the impacting emission is decreased. This observed fact stands in contradiction to the establishment physics idea that the rate of atomic binding, expressed with what is called the fine structure constant, does not vary over space and time.

A spacecraft travelling away from our solar system would encounter decreasing density of impacting emission and thus have an increasing rate of atomic decay, and eventually completely de-construct. Not even NASA has realized this as yet.

The emission impacting upon the Earth has increased in density over time so that the rate of atomic decay on Earth has decreased over time, and is not the uniform rate as assumed by establishment physics. They got it wrong again.

The establishment physics idea of “universal constants” is inadequate. The measurement they call the “gravitational constant”, derived from the attraction between objects on a torsion balance, is nothing more than electrostatic attraction. But, as the absorption and emission of the objects on the torsion balance is relative to the density of emission impacting upon the Earth, their attraction can be seen as a measure of gravity at that time.

Abstractionist paradigm physics sees the nuclear fusion process only in terms of internal attraction as being responsible for the binding of particles into higher forms of matter. Clearly, this is mistaken. Nuclear fusion, as the process of construction, entails the absorption of emission within a context of increasing density of impacting emission.

Global warming is connected to gravity through the increasing density of the emission (gravitational) field of the Earth. The atmosphere of the Earth is retained by the Earth through the atmosphere’s interaction with the emission field of the Earth. The atmosphere doesn’t just hang there by magic. As the density of the emission field increases, the density of the atmosphere increases. This is what underpins the green house effect and global warming. If human carbon emissions were reduced to zero, global warming will still occur because it’s a normal part of the evolution of the planet.

As our solar system exists within the Milky Way galaxy, and is subject to attraction through the absorption of emission within the galaxy, this would impact upon the density of the emission within the solar. The periodic ice ages experienced by the Earth could have been the result of the solar system moving into and out of a source of emission within the galaxy. The cold periods would be the norm, interspersed with periods of increased temperature which would give way to a reduction in temperature once again. This would occur within an overall increase in temperature due to the increasing emission of the Sun. This is supported by the fact that the ice ages were increasingly less severe. The idea that human activity is the sole cause of global warming is untenable.

Two particles that approach each other through the absorption of emission can explode due to the impacting emission acting as pressure. Establishment physics sees this situation as the mutual annihilation of matter and anti-matter. The existence of anti-matter is a myth of the abstractionist paradigm.

Everything has a dissymmetrical duality at its core. This involves one large and one small state of matter.

The gravitational field of the Earth is generated from the dissymmetrical duality at its inner most core. As one part of the duality increases in matter, the other decreases in matter. As the large one attains a state of maximum absorption the other attains a minimal state of emission. The process of absorption and emission then flips over accounting for the regular reversing of the magnetic poles of the Earth.

The fact that particles created from collisions in particle accelerators always take a curved path can be accounted for by the dissymmetrical duality (imbalance) at their cores. Establishment physics offers no explanation for this curved path phenomena.

When electrons are deflected by an electromagnetic (emission) field, what is the mechanism that causes this to occur? Once again, the abstractionist paradigm remains silent. The only possible explanation is that the electrons absorb emission from the electromagnetic (emission) field and are deflected (in the sense of attraction) in accordance with the density of the field.

The well known phenomena of the emission (light) from a distance star being bent as it passes near a star closer to our point of observation, is also a case of particles being deflected by absorbing emission

from an emission field. Establishment physics would have us believe that this is the product of curved or warped space, in accordance with Relativity theory. This is abstractionist nonsense.

The orbit of a planet around the Sun can be accounted for by its absorption of emission from the Sun and other planets, and its orbital motion.

The advance in the perihelion of Mercury can be explained by the increase in the matter of Mercury during each orbit around the Sun. This increase in matter results in an increase in the density of its gravitational field which sees it remain in close contact (at perihelion) with the Sun a little longer during each orbit. This advance in the perihelion, also known as orbital precession, would apply to all the planets.

Rotation as an inherent aspect of the Universe, be it the rotation of a particle a planet a star or a galaxy. The rate of rotation is relative to the density of the impacting emission. An individual particle is a process of absorption and emission and is in a state of imbalance due to the dissymmetrical duality of its core. As a consequence an individual particle would rotate, vibrate and pulsate.

We can see matter as made of particles, which in turn are made of sub-particles. These particles are bound through the absorption of emission within a context of impacting emission. We can see this emission in turn as being made of even smaller particles all the way down to the smallest possible particle in the Universe. However, even this smallest possible particle would absorb and emit and thus exist within a context of emission.

How can you distinguish between the present brightness of a galaxy or star and its distance from the point of observation? By assuming that the brightness of a galaxy or star does not change over time? By assuming that the wavelength of their emission (light) does not change over distance? By assuming that emission (light) has a constant velocity as it travels through interaction with the dispersing emission called empty space? It's all nonsense; an exceedingly large fantasy collusion. The desire to measure cosmic distance over-rides any rational consideration of the actual dynamic nature of the Universe. You cannot distinguish between the present brightness of a galaxy or star and its distance from the point of observation. The only way of measuring cosmic distance is through triangulation. For measurements beyond our solar system, the result will always be "a very long way".

If you measure a wavelength in the emission from a star that corresponds to that of an element, does this indicate the presence of that element in the star? As emission decreases in wavelength as it travels, what you detect could not possibly represent the presence of that particular element.

There is an area of the abstractionist paradigm called Quantum theory. This is really an observation and not a theory. It's based on the fact that energy (emission) comes in discrete packets or quanta, and not as an undifferentiated stream. Quantum physicists do not ask how these quanta are formed or constructed. Quanta, like the wavelengths of emission that they are, are formed or constructed through the convergence levels of emission. Convergence is a fundamental aspect of the construction process of the Universe.

Uncertainty is seen by establishment physics as an inherent aspect of the Universe. This is presented with the Uncertainty Principle, which states that: "there is a fundamental limit to the precision with which a position co-ordinate of a particle and its momentum in that direction can be simultaneously known." ("Larousse, Dictionary of Science and Technology", 1995) If something is in a static position then it doesn't have a velocity, and if it has a velocity then it's not in a static position. Surely, position and momentum are mutually exclusive. The only way that both factors could be known to any level of precision simultaneously would be if the particle does not have a static position but is, in fact, moving at some velocity in a particular direction.

Establishment physics claims that the inherent uncertainty also relates to the “quantum”, or ultra microscale, and that “it has nothing to do with the ability (or inability) of our instruments to make accurate measurements.” (John Gribbin, “Companion to the Cosmos”, 1996) At the ultra microscale the absorption and emission of the matter of the instrument with which you measure interacts with the absorption and emission of that which is being measured. If what you were measuring was a wavelength, then this could entail the matter of the measurement instrument absorbing some of the emission of the wave causing it to collapse to a lower state of construction. This is usually referred to as “the collapse of the wave function”.

Being locked into a paradigm of limited capacity can waste time, money and effort. Establishment physics has wasted all three by building instruments to detect and measure gravity waves. Gravity waves and emission waves are one and the same thing. When you observe and measure the emission of the Sun, you are detecting and measuring gravity waves.

The idea of nuclear fusion reactors to obtain free energy is another misbegotten idea of the abstractionist paradigm. The electromagnet field which is used to contain the process actually fuels the process through its emission being absorbed by the process. You can never get out more than you put in.

Another waste of money and time by establishment physics relates to trying to discover what they call “missing dark matter”. Within the irrationality of the abstractionist paradigm, this dark matter is required to account to the macro-structure of the Universe. There is no missing dark matter.

The establishment physics idea of the big bang beginning of the Universe is based on a misinterpretation of what is called the cosmic red shift phenomena. Red shift involves emission (light) increasing in wavelength. The cosmic red shift phenomena and the gravitational red shift phenomena are one and the same thing. The physics establishment is prepared to accept that the red shift in the emission from our Sun is due to its emission (gravitational) field and yet claims that the red shift in the emission from galaxies is not due to their emission field. We’re asked to believe that galaxies don’t have emission fields, that they don’t have emission at all, that they don’t exist and must be figments of our imagination.

The galaxies are not accelerating away. Forget the Doppler Effect. The emission (light) from galaxies and stars disperses through encountering decreasing density of impacting emission. If the emission from galaxies and stars did not disperse as it travelled towards us, then the sky would be ablaze with the emission called light. This is known as Olbers’ Paradox, and is resolved with the fact of the dispersion of the emission called light.

Around 1929 a “tired light” theory was put forward by the Swiss Astronomer Fritz Zwicky. This theory is in essence correct. However, it was rejected in favor of Edwin Hubble’s expanding Universe theory.

Background microwave radiation has been detected in the cosmic sky, and this is claimed to be left over from the big bang, and as evidence supporting the big bang theory. The background microwave radiation is merely indicative of the dispersion of emission (light) of which space is composed.

The Universe did not begin with a big bang. The Universe did not begin, because it’s infinite in space and time.

Although there are obviously an infinite number of things in the Universe, if there were an infinite number of types of things then there would be infinite variability. We do not observe infinite variability. We observe that things form discrete types.

Could it be that the types we observe are merely a product of the way in which we humans are able to see the Universe? Good question. We humans are an example of the construction possibilities of the Universe, therefore, it's reasonable to assume that our capacity to observe the Universe is in accordance with the Universe and that the types we observe actually exist. Good answer.

The fact that an exceedingly large number would represent the number of finite types of things that can be constructed is irrelevant. As long the number is finite, anything that can be constructed by and within the Universe (including human beings) must exist an infinite number of times. Given that the big appeal of religion is the offer of infinite existence, the fact that infinite existence is a given fact of existence will be the last nail in the coffin of religion.

The Universe involves irony. We can know that out there in the Universe there are an infinite number of our individual and collective selves. However, due to the increasing rate of atomic decay as a spacecraft moves away from our solar system, it's not possible to visit our other individual and collective selves.

The practitioners of the abstractionist paradigm have an unquestioning belief in mathematics and measurements as being necessary for understanding the Universe. What they fail to understand is that logical thinking can go beyond the limitations of mathematics and measurements.

In his "A Brief History of Time", Stephen Hawking states that philosophy has "...not been able to keep up with the advance of scientific theories." As logical and materialist philosophy, this essay demonstrates that Stephen Hawking is wrong. A philosophy that begins with fundamental observation, accepts all scientific evidence, and maintains logical consistency, is also science. Science can be encapsulated as the act of discovery and the art of explanation. All explanation involves the use of analogies, whether they're words or numbers. "To draw a distinction between the scientific and philosophical fields is obscurantism." (Karl Pearson, "The Grammar of Science", 1937)

\*       \*

While coming to the conclusions thus far presented, I realized there was a need for a new way of representing the process of the Universe. I always thought it reasonable that we could have a paradigm that applied to all the disciplines of science. As a consequence, I discovered I had the potential to invent the logic structure that is the paradigm of science and which represents the self-constructing nature of the Universe. Many of the conclusions derived from the paradigm came as a complete surprise to me. You're about to discover the most amazing aspect of the Universe, which is "numeric symmetry". You will be astounded at what it allows us to discover and understand.

### The Paradigm of Science

*"To the practitioners of the old paradigm, the new paradigm appears to be magic."*

The logic of the Universe can be represented by a structure of numbers and arrows that is consistent and complete. If a consistent and complete structure can be shown to apply to one aspect of another consistent and complete structure, then it must by the necessity of logic apply to every aspect of that other consistent and complete structure.

As a consistent and complete structure, the Universe entails the evolving construction and functioning and de-construction of types and states of matter as quantities. Types and states are inclusive concepts. Construction occurs through the convergence of types and states and de-construction is a

product of the reduced binding of matter, chemical reaction, or pressure. The structure as a whole represents the process of everything.

This logic structure can be seen as a materialist paradigm that represents all those real physical things which can be constructed within the Universe. The meaning of the numbers as quantities (their identity) ranges from the absolute detail or individuality to the broadest possible categories or absolute generality. It applies from the microscale to the macroscale of the Universe, and into the realm of biology.

Levels of construction and de-construction are an aspect of the paradigm. Within these levels there are states of maximum stability and minimum construction and states of maximum construction and de-construction. Stability with the paradigm is always relative. There is “numeric symmetry” (numeric analogy), across the levels of construction, which means that any one number (or quantity) has many meanings or identities.

Every type or state of matter is seen as “one thing” in relation to every other type or state of matter in varying degrees of detail or generality. As the Universe is a fully connected process, beginning at one point can lead through rigorous application and logical inference and numeric symmetry to everything.

Not only does the paradigm specify all that we know about the Universe, but it also specifies all that can be discovered by either observation or inference. As a consequence, the distinction between prediction and description no longer applies. Not every aspect of the paradigm is used in every application, because some things are less complex than others.

We can begin with an area where the quantities of types or states are already known. The inside numbers on the paradigm can represent the states of stability and minimum construction, and the outside numbers the states of maximum construction or de-construction. The number 91 at level [18] can represent (predict) that 91 elements are the maximum number that can become stable, and 92 at level [13] can represent the elements as a maximum state of construction and de-construction. At level [18] there is  $172 \leftarrow 91$ , this indicates (predicts) that there can be a maximum of 80 trans-uranium elements. At present there is known to be 80 stable elements, and 26 trans-uranium elements have been discovered.

As the stability of atomic structure is relative to the density of the impacting emission, the paradigm indicates (proves) that the Earth is subject to the increasing density of emission from the Sun.

The individual elements begin with Hydrogen as 4 at level [3] representing its naturally occurring isotopes: Protium, Deuterium, and Tritium. The number [3] as a level of construction would represent its emission field and 7 its level of emission and the maximum de-construction (dispersion) of the matter of which the emission is composed. The 11 in  $11 \rightarrow [3]$  represents the emission impacting upon the emission field of Hydrogen, and the source of the emission. This indicates that Hydrogen has a fourth isotope, which we will call Quadritium. The number 7 at [4] represents Helium as its naturally occurring isotopes. All the naturally occurring isotopes of all the possible elements are represented by the inside numbers on the paradigm. These naturally occurring isotope numbers are in excess of what is presently known by physics.

If you had discovered the 80 trans-uranium elements and Quadritium prior to the existence of the paradigm, they would have been seen as major scientific discoveries. However, with the advent of the paradigm the realization of their existence becomes a minor detail. The existence of Quadritium could be confirmed in the conventional manner within a laboratory. However, its existence has already been confirmed.

Within the relativity of the paradigm, and with numeric symmetry, the individual isotopes of the elements form levels of construction. This sees Protium as level [1], Deuterium as [2], Tritium as [3], and Quadritium as [4]. Physics claims that it detects “molecular” Hydrogen in the inter-stellar space and proposes a three-centre two electron bond model for this molecular Hydrogen. Quadritium as [4] can be seen as a three-centre two electron bond model with (2) in  $7 \leftarrow (2)$  for the electrons and  $(1)=3$  in  $3 \leftarrow (1)$  for the centre. Physics is detecting Quadritium in the inter-stellar space and so has already confirmed its existence without even realizing it. As Hydrogen disperses it de-constructs into its 4 isotopes. This is represented as  $4 \leftarrow 3$  where  $3=[3]$  and is bound Hydrogen. Obviously, you can’t detect the lighter isotopes through the heavier isotope of Quadritium. Hydrogen dispersion represents the maximum state of dispersion of the elements.

The dispersion of Hydrogen as 7 in  $4 \rightarrow 7$  sees Protium as the groundstate of atomic structure with a value of 0=1, then Deuterium has a value of 1, Tritium 2, and Quadritium 3. This is seen as the 7 which derives from Hydrogen dispersion. If Quadritium does not exist then nothing in the Universe can exist because the Universe is a consistence and complete structure where the existence of every part is dependent upon the existence of every other part.

We can infer the existence of everything through the application of the paradigm even through many of those things could not possibly be observed. Given the logical consistency of the paradigm, the conclusions derived from its rigorous application (irrespective of how extraordinary they may be) are equivalent to scientific facts or evidence. Such is the power of logic within a consistent and complete structure.

There is a number on the paradigm that corresponds with the number of planets that our solar system originally contained. That’s to say, solar systems can only form with a specific number (or numbers) of planets. The paradigm is Quantum theory on the scale of the whole Universe.

You should not jump to the conclusion that 9 at [5] represents the number of planets in our solar system. With the increase in the gravity of the Sun over time, due to the increase in its emission, planets will have been destroyed by being attracted too close to the Sun. Then there is the matter of the maximum distance a planet can be from the Sun and still retain the integrity of its atomic structure due to the decreasing density of the impacting emission. You should also keep in mind that all the matter (as opposed to matter that is emission) within the solar system, originated from within the solar system.

The number of planets that our solar system originally contained would include the Sun which begun as a planet. The number would be at least 10. This is based on all the non-planet matter, or “other matter”, in the solar system (asteroids and comets and moons) having originated from the de-construction of at least one planet. Also, Pluto obviously originated from the de-construction of a planet and so is included in “other matter”.

The next thing to determine is the number which corresponds to the maximum number of planets that a solar system can originally contain. Solar systems are clearly states of stability, so the number would be an inside number. The outside numbers represent states of maximum construction and de-construction, so the number would also be an outside number. There are only three numbers which are both inside and outside numbers: 4, 7 and 16. The answer to the question of the maximum number of planet’s with which a solar system can begin is 16.

Can solar systems begin with less than 16 planets? As 16 is the maximum number of planets within a solar system, that leaves 1, 3, 4, 7, 9, and 13 as possibilities for a total of 7 possible types of solar systems. The fact that 7 is both a state of stability and a state of maximum construction, means that there are 7 types of solar systems. The number 1 as a solar system refers to a single star, which in its

first stage is a planet. We can now say that our solar system begun with either 13 or 16 planets, and that the 7 types of solar systems exist within the context of a galaxy that has 16 types. As our solar system exists within a spiral galaxy, there must be 16 types of spiral galaxy. Spiral galaxies have both barred and on-barred types. These two types are represented by  $7 \leftarrow (1) \rightarrow 9$  across level [4] and [5]. The non-barred types are represented by 7 as sub-types or individuals, and the barred types by 9 as sub-types or individuals.

The 49 in  $49 \rightarrow 92$  [13] indicates that of the possible total of 53 type or states of planets/stars ( $16+13+9+7+4+3+1$ ) which can exist with the 7 types of solar systems, 49 have the potential to construct the 92 elements and become solid. As 53 is not a state of maximum construction, there must be 3 other types or states of planets/stars which can be constructed outside of solar systems besides the solar system with one planet/star.

Of the planets which can become solid within solar systems, some are destroyed by being attracted to the Sun while the others attain critical mass at their cores and ignite into second stage stars and become part of a solar system of stars. Through the process of elimination, we can say that 13 planets within the 7 types of solar systems attain critical mass at their cores and ignite into second stage stars. This results in 3 types of solar systems of stars involving 7, 6, and 3 stars. The Earth is one of five planets within our solar system which will ignite into a star.

The number of planets with which a solar system begins is determined by the starting conditions. Those conditions are represented by the same number that represent the planets, but through numeric symmetry relates to the matter from which solar systems are constructed. As 7 represents the number of types of solar systems, then 7 at [3] identifies the matter from which solar systems are constructed, which is Hydrogen.

The answer to the question of why solar systems have these specific numbers of planets can only be answered by answering the question of how they are constructed. The question of science is how not why. The answer of how begins with nuclear fusion as a process that involves the absorption of emission within a context of the increasing density of impacting emission.

If we see the first [1] as an absolute representation of the emission called space, then the Earth would be at [6]: 6<sup>th</sup> planet from the edge of the solar system. The 22 in  $2 \leftarrow 13$  at [6] represents a state of maximum construction. At the level of biology 22 can have an identity of chromosome 22 that represents humans. If you're looking for something to represent the paradigm then  $22 \leftarrow 13$  at [6] will do the job. Humans are the maximum state of biological construction in the Universe. 13 in  $22 \leftarrow 13$  at [6] indicates that humans can only evolve within a solar system which begun with 13 planets and on the 6<sup>th</sup> planet from the edge of the solar system.

As chromosome 22 is 22 in  $22 \leftarrow 13$ , what else, other than a 13 planet solar system, is represented by 13? There is 92 in  $49 \rightarrow 92$  at [13]: 92 is the maximum number of chromosomes of a mammal. 22 can represent the maximum evolutionary realization of the potential of the chromosomes of a mammal.

Human cells have 23 pairs of large linear nuclear chromosomes giving a total of 46 per cell: 46 in  $25 \rightarrow 46$  at [9]. 46 is obviously another state of maximum construction within biology.

Application to biology can also begin with the two types of single cell organisms, prokaryotic with linear chromosomes and eukaryotic cells with circular chromosomes. Prokaryotic cells have 9 parts and eukaryotic cells have 13 parts to their structures:  $13 \leftarrow (3) \rightarrow 9$  across levels [5] and [6]. The chemical construction of the cells is obtained via (3) which as [3] in level as 4 and the bases of DNA: adenine; guanine; cytosine; thymine. The bases are derived from 7 at [4] as the 7 amino acids. As

humans are eukaryotes, the number 13 in  $22 \leftarrow 13$  can also represent the biological heritage of humans.

If the Earth is [6] then Mars is [5] and 9 indicates that prokaryotic (linear) cell organisms have evolved on Mars. This also means that Mars once had an Earth like atmosphere and water. Also, this would see the Sun as [9] and 46 in  $25 \rightarrow 46$  as representing its remaining matter indicating that it's half-way through its second stage.

The differentiation of the eukaryotic and prokaryotic cells is an analogy of the division of an individual cell in physiological functioning. One level of the paradigm is an analogy of the functioning of every individual thing.

Ultimately, the paradigm will specify the details of evolution from the combination of 7 amino acids through the construction of DNA up to the emergence of humans and the context within which we exist:  $22 \leftarrow 13$  at [6] is a "compressed statement" through "numeric symmetry" which can be expanded to obtain the details with the application of the paradigm.

With the paradigm  $H_2O$  can be represented by 49 ( $4+4+31$ ), where Hydrogen is 4 at [3] and Oxygen is 31 at [10]. This sees 49 at [13] representing the factors which in convergence leads to the construction of water.

The following are numbers derived from the paradigm with arithmetic operations and translocations. There is said to be around 680 functional and physical genes on chromosome 22;  $[6]^2=36=[36]=\rightarrow 667$ . There is said to be a total of 1092 genes on chromosome 22;  $[6]_3=18=[18]=91 \times [6]=(546) \rightarrow [1092]$ . The human genome is estimated to be about 3 billion base pairs long and to contain 20,000-25,000 distinct genes; there are 23 maximum state of construction numbers on the paradigm between 20,000 and 25,000. We can take the average of these two numbers as a starting position. The closest number as a state of maximum construction is 22.579. This can be derived as follows:  $(22-13)-1=8=[14]=106 \times 2=212=[212]=22,579$ ;  $(46-25)-1=20$ ;  $212/20=10.6=106 \times 2=212$ . Level [212] can find confirmation from both level [6] and [9].

Chromosome 22 contains 49 million base pairs, which would correspond to levels of construction so that 49 in  $49 \rightarrow 92$  at [13] can represent the base pairs which give rise to the maximum number of chromosomes of a mammal. Now we have 13 at [6] representing [13] and the 49 million base pairs which give rise to chromosome 22.

The number 1092 is not a maximum state of construction. The closest number is 1082 at [46], which brings us back to the 23 pairs of Human chromosomes. There only needs to be 1082 genes on chromosome 22 for the activation of its 667 functional and physical genes. The non-functioning 415 genes, together with the other 10 non-functioning genes, are usually referred to as "junk". However, at least 415 are a necessary part of the structure of DNA. You could say that the paradigm is the double helix of the Universe.

The theory that the large dinosaurs died out due to a meteor strike, has always seemed improbable to me. We know that there needs to be a minimum number of a species to maintain the genetic diversity that would avoid the inbreeding which leads to extinction. What if the large dinosaurs had attained their maximum level of genetic diversity, so that they went into extinction due to becoming inbred? We can see the inside and outside numbers of the paradigm as representing the minimum and maximum parameters of the genetic diversity for a particular species. Let's call Hydrogen large dinosaurs. Its genetic diversity has a total value, or range, of 7. Once it attains 7, it goes into extinction through inbreeding. Each level of the paradigm can be seen as a statement of the parameters of life.

If  $4 \text{ in } (2) \rightarrow [4] \leftarrow 7$  is a species of biology then it exists within (2) as its environment and 7 as the impacting emission. Through emission (radiation) a new part of its genetic structure, in the form of genes, is activated for the first time. Through breeding with a member of the species from which it emerged, the new genes find biological confirmation. For this genetic activation to be successful it must give the new species an advantage within the environment within which it exists. This new genetic arrangement is passed on to the following generations and a new species of biology has come into existence. The survival of the fittest is preceded by improved survival capacity derived from the activation of genes.

Eventually, all the planets within a solar system are either consumed by the central star, have ignited into second stage stars, or dissipated as gas planets. With the consumption of all their matter, second stage stars dissipate into the Hydrogen from which they were constructed. This accounts for the abundance of Hydrogen in the Universe. This Hydrogen then becomes the basis for the construction of new stars and solar systems. Hydrogen is never constructed, and exists infinitely despite that which is destroyed with the nuclear de-construction called explosion.  $11 \rightarrow [3] \leftarrow (0)$  on the paradigm represents this fact by virtue of the (0). Everything else, except the groundstate, is constructed by the convergence of types or states of matter. The groundstate is represented by  $(1) \rightarrow 3 \leftarrow (0)$ . The 3 indicates that there is a dissymmetrical duality at the bottom of the Universe.

As the 7 types of solar systems become stars then these plus the other 3 types equals 10. This finds confirmation as [10] with 56 types or states of planets/stars. This means there are 7 types of planets/stars which do not construct the 92 elements but which attain their maximum state of construction, which is confirmed by 7 at [3].  $3 \leftarrow (0) \rightarrow 4$  across [2] and [3] is the differentiation of the 7 types.  $4 \rightarrow 7$  indicates that 4 of these 7 exist within solar system, which means the other 3 as second stage stars are destroyed prior to constructing the 92 elements. This indicates that the bursts of gamma radiation are the explosion of these 3 types of first stage stars. The 4 are planets that do not progress beyond the gas stage. This 4 is differentiated into  $3 \leftarrow (1) \rightarrow 1$ , with 3 being the outer most planets in a 16 planet solar system and the 1 being the outer most planet in a 13 planet solar system. The reason that 13 planets within a 16 planet solar system can become solid and only 12 within a 13 planet solar system, is the presence of the greater number of outer planets and their emission adding to the density of emission within the solar system and impacting upon the inner planets. This is a macroscale example of construction through convergence.

There are 16 basic types of spiral galaxies, with 9 barred and 7 non-barred. How many types of elliptical and globular galaxies are there? As elliptical galaxies are less complex than globular galaxies the number 2 at [1] would represent their types. The number 4 at [2] would represent the types of globular galaxies. This gives a total of 22 types at [6], which finds numeric symmetry with 22 as chromosome 22 as the top two maximum states of construction in the Universe. The cores of spiral and globular galaxies are constructed from the emission that is space and are literally balls of light. The paradigm as a whole sees their cores represented by levels [1] and [1], with the other levels representing the construction and de-construction of stars within the galaxies. Nebula (Irregular) galaxies are the product of the dissipation or dispersion of spiral and globular galaxies.

The structure of planets involves levels of differentiation. The structure of the Earth is seen as having four main parts: the inner-core, the outer-core, the mantle, and the atmosphere. This can be represented by 4 at [3]. To this we must add 3 as a dissymmetrical duality inside the inner-core from which the emission field is generated, for a total of 7 levels of structure, which can be seen as 7 at [4]. We can now see 9 at [5] as the atmosphere of the Earth, where dry air is composed of 9 gases: Nitrogen; Oxygen; Argon; Carbon Dioxide; Neon; Helium; Krypton; Hydrogen; Xenon. If we see [5] as the five parts of the atmosphere (Troposphere; Stratosphere; Mesosphere; Thermosphere; Exosphere) then these 5 parts combined with the 7 parts of the planet to make 12. To this we add 1 for the

emission field (Magnetosphere) of the Earth so that 13 at [6] represents the Earth. This adds some more detail to our “compressed statement” of  $22 \leftarrow 13$  at [6].

With the Earth at [6] Saturn would be [3]. The rings of Saturn have 7 major sections which are referred to as A, B, C, D, E, F, and G. There are also 7 moons which are spherical in shape. This is the beginning of detailing the structure of Saturn.

In time, all but Neptune of the four gas giants of our solar system will become solid. This process entails the increasing density of matter within the planets by way of the absorption of emission, in combination with the increasing density of the impacting emission. Attraction from within plus pressure from without is the mechanism for the construction of matter, within the solar system.

The atmosphere of a planet is derived from the gas of which it was originally composed. Of the 13 planets (including the Sun) which our solar system begun with, 11 will become solid and have an atmosphere. This sees 11 in  $11 \leftarrow 7$  at [4] representing the 11 planets, where 7 as the maximum state of construction of Hydrogen (Quadrutium) is the matter from which the planets were constructed.

If we see level [13] as the de-construction of the 92 elements of a second stage star, then its emission is de-constructing and re-constructing through convergence into wavelengths of decreasing density all the way down to the groundstate from [12] to [1]. A wavelength is represented as a level of construction. It's the decreasing density of emission, resulting in increasing wavelengths, which was mistakenly interpreted by the practitioners of the abstractionist paradigm as a Doppler Effect that was indicative of galaxies accelerating away. But, then, they didn't have the paradigm and were (are) operating on the basis that you can measure cosmic distance with the light from galaxies and stars.

All astrological phenomena can be specified with the paradigm. Those planets/stars which have jets emanating from their poles are obviously being squeezed by the impacting emission causing their emission fields to be concentrated at their poles. One jet of emission will be more intense than the other, reflecting the dissymmetrical duality at their core from which the emission field is generated.

The model of the atom involves a neutron and proton bound together to form a nucleus. This is seen as being orbited by an electron. For the neutron and proton to be bound together would require that they had different levels of absorption and emission. To remain in orbit, the electron would need to rapidly switch from absorption exceeding emission to emission exceeding absorption. This is readily represented as a cycle of absorption and emission at the top of the paradigm. The same switching, or oscillating, between absorption exceeding emission and emission exceeding absorption would apply to the neutron and proton, so that they can also be seen as cycles of absorption and emission.

Within the relativity of the paradigm, the electron and proton and neutron as particles are represented by 1, 3, and 4 at levels [1], [2], and [3] respectively. The 1 at [1] can be seen as the numeric symmetry (analogy) of the smallest possible particle at the groundstate of the Universe. This is what particle physicists call the “god” particle; as it exists within the context of absorption and emission it can't be said to be the smallest particle because that is beyond the capacity of the paradigm to represent. None the less, the paradigm makes the multi-million dollar particle accelerators redundant.

Every number on the paradigm to the square finds representation as an inside number down the right side of the paradigm. These numbers are the square of the sequence of natural numbers. Within Quantum theory, they represent the energy levels of what is called a one dimensional well of potential. The paradigm represents the Universe as a one dimensional well of potential and is the detailed specification of any one thing and everything in the past and the present and the future. Within a Universe of infinite space and time and finite construction possibilities, everything that can

exist does exist in every moment of time. The paradigm is a “snap-shot” of what can be constructed within the Universe.

As the paradigm represents everything which can be constructed within the Universe, it also includes every possible type and state of technology. The possible types and states of technology are not infinite, because the context within which they are constructed is finite.

There are an infinite number of spiral galaxies in the Universe, which have 16 types. Within these galaxies an infinite number of solar systems which begin with 1, 3, 4, 7, 13 or 16 planets are constructed from Hydrogen. In an infinite number of those solar systems which begun with 13 planets, biology is constructed and evolves into humans from the combination of 7 amino acids on the 6<sup>th</sup> planet from the edge of the solar system. The irrefutable conclusion is that the construction of biology is inevitable, and that Humans exist an infinite number of times through-out the Universe.

## Conclusion

If you see the paradigm as being tested every time that it's applied, then you would call it the theory of everything. The paradigm is obviously a paradigm shift revolution for physics, especially in the area of Astrophysics/Cosmology. Numeric symmetry was clearly an extraordinary discovery. The invention of the paradigm, on the other hand, involved discovery that included intuition. As intricately complex constructions of the Universe, we're “compressed statements” of the construction possibilities of biology and contain within our physical being the logic of the Universe. With the paradigm we can obtain the details of how everything is constructed, functions, evolves, and de-construct. We can reach back into to past and understand our biological heritage, and then reach out into the future and explore its possibilities. All the knowledge of the Universe is contained in the numbers of the paradigm waiting to be discovered by those who pursue its rigorous application. By beginning with what we know and can observe, it allows us to explore that which we can't possibly observe. The numbers are the true constants of the Universe, and represent its logical types. As a guide to research it asks the questions and provides the answers. As the numbers obtain their identities, the rate of its application will steadily increase leading to a rapid growth in knowledge. Science has always been determining the identity of the numbers, in discovering the details of the Universe, that's why it's called the paradigm of science.

## Postscript

As the Earth and its inhabitants exists an infinite number of times through-out the Universe, the paradigm has been discovered an infinite number of times. Within this particular frame of space and time, I discovered the paradigm. In just as many other frames of space and time everyone else discovered the paradigm. We're all individually unique and a category of one unto ourselves. If you've done your best, then you're the best in the world. Just as we can see the purpose of the Universe as the realization of its construction possibilities, we can see the purpose of Human existence as the realization of the inherent constructive potential of every individual Human being.

A copy of the first part and a more extensive exe file version of the paradigm can be obtained from here: <http://members.westnet.com.au/paradigm/para4.pdf>.

[Stephen.Mooney@westnet.com.au](mailto:Stephen.Mooney@westnet.com.au)