

The Materialist and Infinite Universe beyond the Abstractionist Paradigm of Physics

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The Universe is a self-creating, self-organizing, and strictly determined and evolving infinite process and cycle of the construction and de-construction of matter. With its reliance upon mathematics and measurements, Physics is an Abstractionist Paradigm that's limited in its capacity to specify this infinite process and cycle. Fundamental to our understanding of the Universe is the phenomena of attraction and repulsion. By going beyond the Abstractionist Paradigm we gain an understanding of how the Universe works at this most fundamental level. The result in the generation of theories that challenge many of the theories of Physics, gives rise to the first law of Physics, and establishes a profound aspect of our human existence.

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When you rub a glass rod and place it near a suspended pith ball, the pith ball is attracted to the rod. The Abstractionist Paradigm states that this is due to dislike charges, but doesn't offer an explanation of the materialistic mechanism of the attraction other than the exchange of virtual particles travelling through empty space. The best explanation is that the attraction is caused by the pith ball absorbing emission that emanates from the glass rod, and vice versa. This gives rise to the realization that repulsion is the result of bodies having an equivalence of emission, and pushing away from each other via that emission. This in turn leads to attraction requiring bodies to have an inequivalence of emission, which we can relate to dislike charges, and that the absorption and emission occurs via an emission field which is an aspect of everything that exists.

The absorption of emission is also the cause of the strong and weak nuclear force and gravity, which are not separate forces as conceived by Physics. The Universe is a process of absorption and emission within a context of the construction and de-construction of matter from the microscale to the macroscale, and the forces of Physics are effects of this process.

What's assumed by some to be empty space is composed of the emission of objects. This emission (which can be called energy or light or radiation) is made of matter and is a process of absorption and emission and dispersion, where dispersion involves the construction of matter into successively lower levels of construction. Emission is not equivalent to the ether of some earlier Physics thinking, which is seen as an independent and static medium through which emission travels or is propagated. Emission travels through a process of dispersion and re-construction so that emission is both the medium and the means for it to travel.

Emission is constructed or quantified (or quantized) into detectable wavelengths (as densities of emission) through the convergence of emission from different sources. The detectable wavelength of the emission of an object is constructed by the convergence of emission of the object and that which impacts upon the object. Convergence is thus a fundamental principle of the Universe.

Everything is either in a state of absorption exceeding emission, or emission exceeding absorption. This can also entail the processes reversing, and in some instances doing so rapidly. Contrary to popular belief, matter is not inert at any level of its construction. A planet is a state of absorption exceeding emission, whereas a star is a state of emission exceeding absorption.

Physics accepts that gravity involves acceleration and not merely uniform motion, but doesn't offer an adequate explanation for why this should be the case. With the absorption of emission theory, absorption leads to increased matter which results in increased absorption capacity. But this could lead to exponential acceleration, and not the uniform acceleration that's observed. The absorption of emission is from all directions, but more so from the source of the emission with the increased density of the field in that direction. The absorption of emission from the direction opposite to that of the source of the field acts to control the rate of acceleration. Objects of different size all fall at the same rate, the rate of acceleration due to gravity, because they absorb emission in portion to their quantity of matter from all directions.

Gravity was conceived by Isaac Newton as being proportional to the product of the masses and inversely proportional to the square of the distance between the masses. This produced a mathematical representation of gravity as a force, but left it as a magical action-at-a-distance. In his Principia Mathematica of 1687, Isaac Newton states that; "...bodies, by some causes hitherto unknown, are either mutually impelled towards each other, and cohere in regular figures, or are repelled and recede from each other."

The original torsion balance measurement of the gravitational constant was conducted by Henry Cavendish, and published in Philosophical Transactions of 1798. He discovered that heating one of the bodies on the balance resulted in repulsion, "... the arm moved backwards, in the same manner that it before moved forward". The heating involved the bodies obtaining a state of equivalence of emission and repelling each other in contradiction of the idea that gravity only involves attraction.

Isaac Newton's gravitational equation is also used by Physics for electrostatic attraction, and the reason that it works is because attraction is caused by the absorption of emission.

For Albert Einstein, gravity is seen as caused by curved or warped space. This idea works because curved or warped space relates to the increase in density of the emission field of a body with the decrease in distance from the body. This is obvious, once you accept the absorption of emission theory.

The Earth is attracted to the Sun through absorbing the emission of the Sun via the Earth's emission (gravitational) field. Part of the emission absorbed by the Earth's emission field would reach its core. I see this core as a dissymmetrical duality. This involves one large and one small state of matter, and would see the emission field of the Earth generated from this duality. As one part of this duality increases in matter through absorption exceeding emission, the other would decrease in matter through emission exceeding absorption. As one attains a state of maximum absorption the other attains a state of maximum emission. The process of absorption and emission then reserves for each part of the duality, accounting for the regular reversing of the magnetic poles of the Earth.

With the absorption of emission theory, it's not possible for a star to collapse under the increase in its own gravity (emission) and form a blackhole. The blackhole theory was based on seeing gravity as caused by matter, in-and-of-itself, with the absence of an adequate explanation for its cause.

In 1954 a French economist named Maurice Allais observed an anomalous rotation in Foucault's Pendulum, in that it 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 emission (gravitational) field of the Sun resulting in less absorption of emission by the emission

field of the Earth. The slight reduction in the density of the emission field of the Earth, its gravity, 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 want 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. Physics claims that the decrease in rotation 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 physical connection between the Earth and the Moon is by way of the absorption of the emission. What holds the Moon in orbit around the Earth, and stops it from crashing into the Earth, is it's absorption of emission from the Sun counter-balancing its absorption of emission from the Earth. The Sun is increasing in emission and that accounts for the Moon moving away from the Earth.

The decrease in the rotation of the Earth is also accounted for by an increase in the emission of the Sun. This could be expressed as inertia. 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) Inertia is presented as a "magical" property of matter, by offering no explanation for its cause. 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.

The axial rotation of natural satellites (moons) which are close to a planet has been eliminated so that they are locked to the rotation of the planet, whereas those which are further from the planets still have axial rotation. The satellites which are close to the planet are subject to the greater density of the emission field (gravity) of the planet than those which are further away.

The advance in the perihelion of Mercury can be explained by the increase in the matter of Mercury during each orbit around the Sun. The result is an increase in the density of its emission field which sees it remain in close contact (at perihelion) with the Sun a little longer during each orbit. This advance in the perihelion, would apply to all the planets. This also explains why the orbits of the planets are elliptical and not circular.

The Earth is a state of absorption exceeding emission and so increases in matter over time. This leads to an increase in its emission, which means that its gravity also increases over time. In the time of the Dinosaurs, the gravity on Earth was less than it is now. Physics sees the gravity of the Earth as uniform over time.

An important example of the inadequacy of interpretation by the Abstractionist Paradigm involves the variability in the rate of atomic vibration. An experiment conducted by J. C. Hafele and R. E. Keating in 1971, measured the rate of vibration of two cesium beam 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. The vibration is caused by the absorption and emission of the clocks.

Physics interprets the Hafele-Keating experiment as demonstrating the variability in time, because they see time as an independent dimension and (sometimes) space as empty. Time is a measurement of duration and/or 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.

Relativity theory sees the Hafele-Keating experiment in terms of the difference in the time of the two clocks as being "due solely to gravitation and kinematic effects." However, it also claims that the difference is due to the speed of the airplane: "If the speeds were greater, the relative effect would be greater also". Then, the situation is finally clarified by stating that: "The result is, time runs faster on the plane as it flies higher. This effect is due to gravitation and is independent of the plane's velocity." (Edwin Jones and Richard Childers, "Contemporary College Physics", 1993) The difference in the time of the two clocks is due solely to the emission (gravitational) field being less dense above the surface of the Earth, and has nothing to do with the motion of the airplane. The idea that motion, in and of itself, can have an impact upon time is pure abstractionist nonsense.

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 its 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 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 have an increasing rate of atomic decay, and eventually completely deconstruct. Not even NASA has realized this. The fact that Pioneer 10 and 11 are slowing down at a rate greater than predicted as they escape the solar system, is an indication of their increased rate of atomic decay which results in an on-going reduction in their amount of matter.

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 Physics.

Physics sees the nuclear strong and weak force as a purely internal process that is responsible for the binding of particles into higher forms of matter. They even talk about the "energy" required to maintain this binding. The nuclear force as the binding of particles entails the absorption of emission within a context of the increasing density of impacting emission. I say increasing density of impacting emission because every star and planet and solar system that is evolving is subject to attraction to a source of emission within a galaxy, and this involves the increasing density of impacting emission.

The first law of Physics should state that "matter is constructed into higher forms through the absorption of emission within the context of the increasing density of impacting emission, and its stability is relative to the density of the impacting emission".

Stars are constructed from the emission called space in a two stage process. The first entails a state of absorption exceeding emission and it becoming a planet. This is followed by the planet igniting into its second stage and being a state of emission exceeding absorption. This second stage would involve the star consuming the matter that it constructed in the first stage. With its emission increasing over time, its gravitational capacity increases. The increase in gravity would see a star consume or otherwise destroy all the planets in a solar system. At least some of the planets in a solar system would ignite into their second stage and become stars within the solar system. Brown Dwarf stars are in their first planet stage, while Red Giant stars are in the process of igniting into their second stage.

There is the theory that planets and stars “coalesce” from a cloud of gas and dust. The mechanism of this “coalescing” is never explained. Gas within the emission field of the Earth disperses and doesn’t “coalesce”, so it’s not going to “coalesce” in the lower density emission field of outer space. Then there is the matter of the atoms of the gas and dust having a greater rate of atomic decay in the lower density of the emission field of outer space. Claiming that planets and stars are formed or “coalesce” from gas and dust which is the result of exploding planets and stars, is the sort of circular argument that proposes that an infinite number of giant turtles on the backs of other giant turtles are holding up the Earth.

Needless to say, I reject the Physics theory about nuclear construction (fusion) requiring extreme heat to begin with. The heat comes after the first stage star, as a planet, has built up pressure in its core from the increasing matter derived from the absorption of emission (matter).

Then you have Binary star systems, where the stars have equivalent emission and repel each other and orbit a central point. They’re a perfect example of how gravity (emission) can repel and not just attract in contradiction to the establishment Physics idea of gravity.

Pulsars are stars which are rapidly rotating with jets of emission from their poles that emanates from the dissymmetrical duality at their core. One jet has slightly greater intensity than the other. These stars are in their final stage of consuming their matter, which begins at the core. With its completion they dissipate. Nova are dissipating and dispersing stars. The bursts of gamma radiation detected from all directions in the cosmic sky are dissipating fusions of emission.

Global warming can be seen as connected to gravity through an increase in the density of the emission field of the Earth. The atmosphere of the Earth is retained by the Earth through the atmosphere’s interaction with the emission field. The atmosphere doesn’t just hang there by way of magic. As the density of the emission field increases, the density of the atmosphere increases through more of the chemicals which make-up the atmosphere being retained for a longer period of time.

As our solar system exists within the Milky Way galaxy, it’s subject to attraction through the absorption of emission within the galaxy. This results in the increase in density of the emission within the solar system, and the increase in the density of the emission field of the Earth. An emission event within our region, such as a dissipating star, would have a shorter term impact upon the Earth through increasing the density of its emission field resulting in an increase of the average temperature of the Earth for a period of time.

The Earth has experienced extended cold periods called Ice Ages. We can see this the other way around. The cold periods could be the norm, interspersed with periods of increased temperature due

to emission events within our region of the Milky Way galaxy increasing the density of the emission field of the Earth. Such an event could have happened thousands of years ago, and have an impact upon the Earth over an extended period of time.

Just because two events coincide does not mean that there's a direct cause and effect connection. Two such events are the rise of the Industrial age and global warming. In the absence of an alternative explanation, it's been assumed that the cause of global warming is Human carbon emissions. To believe that Human carbon emissions exceed those of volcanic activity is to stretch the limits of credibility. An emission event within our region of the Milky Way galaxy is much more likely to be the cause of the present phase of the increased temperature of the Earth.

An individual particle absorbs and emits and rotates, and has a dissymmetrical duality at its core. If you observed an individual particle it would be seen to pulsate and vibrate and have an emission field.

The attraction of an electron to the nucleus of an atom involves the electron absorbing emission from the nucleus and attaining its maximum state of absorption, and then being repelled through the electron's emission being equivalent to that of the nucleus. At a distance from the nucleus the electron attains its maximum state of emission, and is once again attracted to the nucleus through the absorption of the emission of the nucleus.

Neutrons and Protons are bound through the absorption of each other's emission and must move towards and away from each other as they attain their maximum states of absorption and emission in the say way as the electron oscillates between its maximum states of absorption and emission.

Electrons are deflected by an electromagnetic (emission) field through absorbing emission from the field, and are deflected (in the sense of attraction) in accordance with the density of the field.

The occurrence of the emission (light) from a distance star being bent as it passes near a star closer to our point of observation, gravitational lensing, is also a case of particles being deflected by absorbing emission from an emission field.

As emission travels through interaction 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 Physics. If you measured the speed of emission 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 Physics Idea of "universal constants" is wrong. Just because you can measure something on Earth at a particular time, does means that the result can be applied to anywhere and at anytime in the Universe.

Uncertainty is seen by 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 doesn't have a static position, but is moving at some velocity in a particular direction.

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 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". There is no uncertainty in the Universe, only the limitations of technological measurement.

How can you distinguish between the brightness of a galaxy or star and its distance from the point of observation? By assuming that the brightness does not change over time? By assuming that the wavelength of the emission (light) does not change over distance? By assuming that emission (light) has a constant velocity as it travels through interaction with the emission called space? It's all nonsense; an exceedingly large fantasy collusion. The desire to measure cosmic distance over-rides any rational consideration of the nature of the Universe. This delusion has been going on for nearly one hundred years. You can't distinguish between the brightness of a galaxy or star and its distance from any point of observation. The Standard Candle idea is the attempt to overcome the impossible

Being locked into a paradigm of limited capacity can waste time, money and effort. 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're detecting and measuring its 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. The so called "over-unity" phenomena are also a case of the absorption of emission not being taken into account.

The Physics idea of a big bang beginning of the Universe is based on a misinterpretation of the cosmic red-shift phenomena. The cosmic red-shift phenomena and the gravitational (emission) 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 distant galaxies is not due to their emission (gravitational) fields.

The emission from galaxies is decreased in density and increased in wavelength with the distance from the galaxy. The emission from the Andromeda galaxy is known to be blue-shifted. This is due to the galaxy moving towards our galaxy as a result of the attraction between the galaxies. This involves the density of its emission field being increased in relation to the distance to our galaxy: our point of observation (our galaxy) is getting closer to the source of the emission from Andromeda. The red-shift of distance galaxies could be the result of them moving away, but this interpretation is simply not necessary because it's readily accounted for as a gravitational (emission) red-shift.

The background microwave radiation that's detected from all directions in the cosmic sky is claimed to be left over from the big bang. It's only evidence of the fact that space is composed of emission. The ultimate micro-scale of the Universe, the emission groundstate, can be seen as a cycle of absorption and emission. This cycle continually tries to emerge but falls back if the density of the impacting emission is not great enough for the construction of elliptical galaxies, stars, or solar systems.

In 1929 a "tired light" theory was put forward by the Swiss Astronomer Fritz Zwicky to account for the red-shift in the light from distant galaxies. This theory is in essence correct. It was rejected in favor of the expanding Universe theory, because that fitted the desire of Physicists to measure things. The big bang theory is right up there with the Flat Earth theory, and the Earth being the centre of the solar system theory.

The Universe is infinite in distance and duration, space and time, and is a process of the construction and de-construction of everything across Cosmology and Biology.

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? 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.

The fact that an exceedingly large number would represent the finite number of the possible types of things that can be constructed is irrelevant. As long the number is finite, anything that can exist must exist and re-exist an infinite number of times; this essay has been, and is being, written an infinite number of times on an infinite number of planets called Earth. You exist in a finite number of possible permutations of yourself, an infinite number of times.

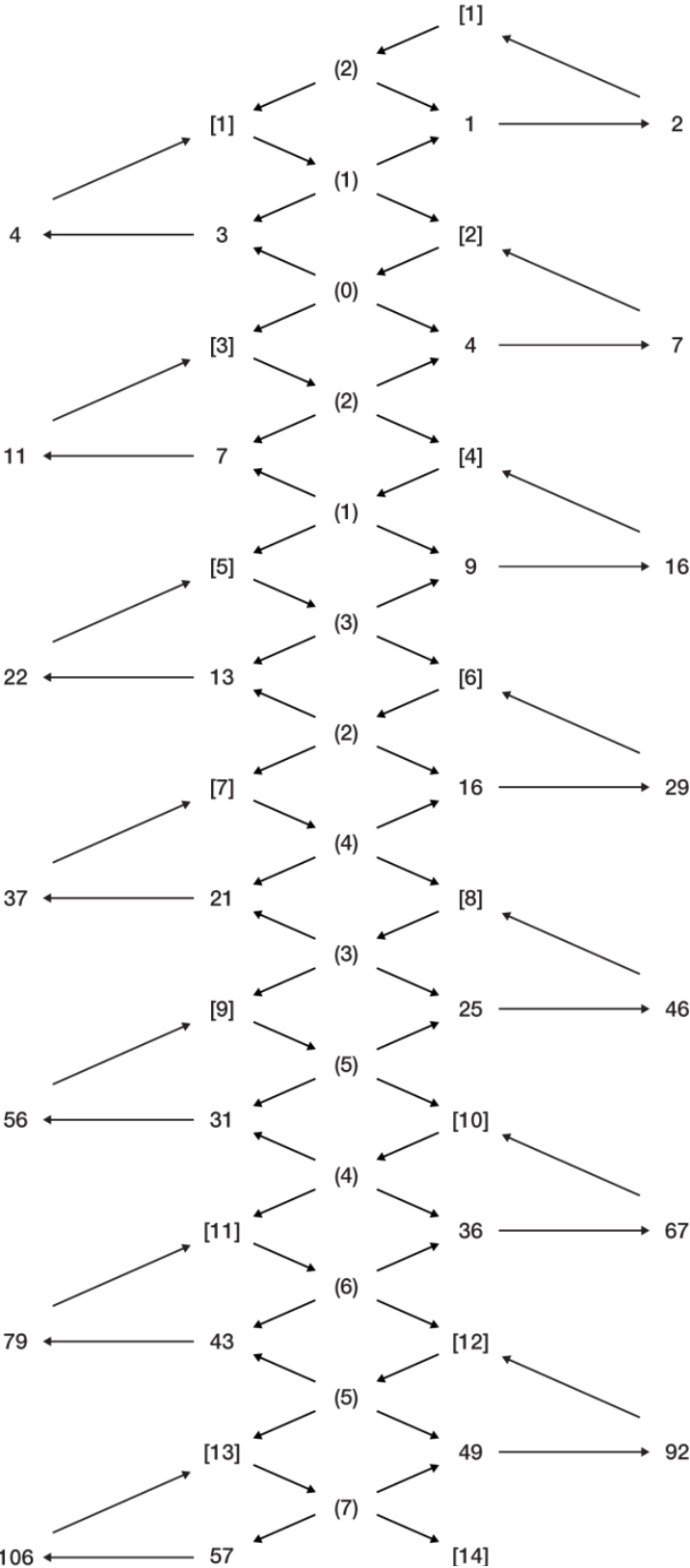
Infinite re-existence occurs through spiral galaxies being constructed from the emission groundstate through the absorption of emission, and evolving into globular galaxies through the core of the galaxy attracting the stars and solar systems of the galaxy. Globular galaxies then disperse to become nebula galaxies. Everything within these galaxies is de-constructing back to the emission groundstate due to the lack of a source of increasing density of impacting emission, a core. A cycle of the construction and de-construction of matter within the infinite duration of the Universe is thus completed.

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Out there on those other Earths are Humans in every stage of their evolution. Many know they can't travel far outside of their solar system, because of the first law of Physics. They also know about their infinite existence and re-existence. As a consequence, they would've turned their attention back onto their planet and themselves. I feel sure that many seek to improve and ensure the living conditions of the whole Human family.

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A Possible Numeric Materialist Paradigm of Types



A more extensive EXE file version of the Paradigm can be obtained from here:

<http://home.spin.net.au/paradigm/PARA32.EXE>

The finite construction possibilities of the Universe may be able to be represented with an arrangement denoting the number of possible types across Cosmology and Biology, and which would constitute a Numeric Materialist Paradigm of Types. This would represent the fact that everything which can exist does so in a single unit of time: everything that can exist would be represented in every stage of its construction in the past and the present and the future, from the emission groundstate of the Universe to the de-construction of galaxies. As a consequence, we could look back and forward in time. Everything would be represented as a quantity. Application (or interpretation) would begin by establishing the identity of a quantity or quantities, which can more simply be referred to as numbers. It would then proceed through determining the identity of the surrounding numbers. The numbers in square brackets would represent levels of construction, with everything also being seen as a level of construction with finite construction possibilities. The level numbers could also contain quantities relevant to that level of construction. The numbers in round brackets could represent convergent and divergent factors. The outside numbers would represent states of maximum construction or maximum potential, whether they relate to an individual thing or a type or category of things. The inside numbers would represent states of stability or minimum construction, although stability is always relative. Any one thing would be represented in relation to everything else in varying degrees of detail or generality. There would be numeric symmetry or analogy (quantitative correspondence) from the microscale to the macroscale across Cosmology and Biology, so that any one number or level of construction has many identities. Although the Paradigm would be finite, we would never determine its end and never establish the identity of all the numbers.

Cosmology

All cosmic scale phenomena are the product of the construction and evolution of stars, solar systems, and galaxies. Level [3] on the Paradigm could represent a star, relative to [4] as a solar system, and [5] as a spiral galaxy. The MK system for the classification of stars through their spectra involves 7 types. The near infra-red morphology of spiral galaxies involves 16 types. This means that 11 is the maximum number of planets (which includes the central star) with which a solar system begins. With levels [1] and [2] as the groundstate, level [13] is the 11th planet from the edge of a solar system and in the centre. The maximum state of construction at [13] is 92, which can represent the 92 elements. A star is planet in its first stage and constructs the elements through absorption under the increasing density of impacting emission. A point is reached when the pressure at the core causes it to ignite into its second stage and become a star.

Stars do not actually come in seven spectral types as claimed by the MK system of classification. Given that emission (light) increases in wavelength as it travels, and that the emission of stars increases over time, the idea of the spectral analysis of the light from galaxies and stars is nonsense. Level [3] represents a star relative to [4] and [5] representing a solar system and a spiral galaxy, because 7 is a fundamental specification of the construction of emission into what is detected as a wavelength and through numeric symmetry represents the emission of a star. The smallest possible wavelength above the groundstate is represented by $16 \rightarrow [4] \leftarrow (2)$, and has the value of 7 as a density of emission. With emission travelling through interaction with emission (absorption and emission) it's squared, and squared an unknown number of times. The number 49 at [13] equals 7^2 and can represent (through numeric symmetry) the pressure at the core of a planet as it ignites into a star.

When you detect a wavelength that is consistent with a particular element in the emission of a star, you're detecting the emission symmetry of the element. The number 92 at [13], for example, can represent uranium and through numeric symmetry all the 92 elements and also a level of emission that has no simple connection to uranium or the elements. The Paradigm would specify all the possible levels of the construction of emission into detectable wavelengths. The number of levels of particle and emission construction up to the level of a neutron or proton or election to the groundstate is presently unknown.

With level [3] representing a star, [4] as a solar system, and [5] as a spiral galaxy, $11 \rightarrow [3]$ would represent the emission impacting upon a star via its emission field within a galaxy. Solar systems become a single star through the increasing emission (gravity) of the central star and the demise of the planets. $[4] \leftarrow 16$ represents the emission from a spiral galaxy core impacting upon the emission field of a solar system.

Of the 11 planets with which our solar system begun one would have ignited to become the central star (the Sun). Of the remaining 10, two would have been destroyed due to the increasing emission (gravity) of the Sun. Of the remaining 8, some will be destroyed and some will ignite into their second stages and become stars in a solar system of stars. The number that will be destroyed or ignite would be represented on the Paradigm. The Earth will be the second planet in the solar system to ignite into a star, because there can only be a maximum of 7 stars in a solar system of stars: $4 \rightarrow 7$. The number 7 also represents the number of the construction possibilities of a star, in the sense of combinations and stages. It may also be the case that stars can form as a string or line of up to 7 stars.

The elements are represented individually on the Paradigm as levels of construction, with [3] being Hydrogen and [94] Uranium. With the de-construction of a galaxy or star, the elements de-construct (decay) back to Hydrogen. This accounts for the abundance of Hydrogen in the Universe. Hydrogen itself would de-construct back through the levels of particle and emission construction to the emission groundstate from which it was constructed.

Elliptical galaxies are discs of emission which are constructed from the emission groundstate and either dissipate due to the lack of density of impacting emission, or go on to become spiral galaxies which form clusters through the attraction derived from the absorption of emission.

Globular or star burst galaxies are spiral galaxies that are in the final stage of their cores consuming their stars and prior to dispersing to become nebula galaxies. They do not explode. Due to their lack of a source of increasing density of impacting emission, stars and solar systems are not constructed within nebula galaxies. Everything within these galaxies is de-constructing back to the groundstate.

The sequence of $[1] \leftarrow 4 \leftarrow 3 \leftarrow (1) \rightarrow 1 \rightarrow 2 \rightarrow [1]$ has (1) in the centre as the emission groundstate, 1 as an elliptical galaxy, which has 2 possibilities, 3 as those construction possibilities, 4 as the four types of galaxies that are observed, and [1] and [1] are also the emission groundstate. This represents the most general specification of the infinite cycle of existence.

The four inner planets in a solar system which explode have reached their maximum construction, because of the nature of solar systems. This is represented on the Paradigm as 4 at [2] where 3 as [3] has 7 representing the evolution of a solar system to 7 stars. All the non-planet bodies in that can exist within a solar system, such as moons and asteroids and meteorites, are the product of the

exploded planets. Nothing can enter the solar system because of the first law of Physics and the Universe.

Pulsars are stars which are rapidly rotating with jets of emission from their poles that emanates from the dissymmetrical duality at their core. One jet has slightly greater intensity than the other. These stars are in their final stage of consuming their matter, which begins at the core. With its completion they dissipate. Supernova are dissipating and dispersing stars. The bursts of gamma radiation detected from all directions in the cosmic sky are also dissipating stars.

The number 29 in [7] $16 \rightarrow 29$ represents the number of globular and nebula galaxies, which are divided into 13 and 16 types. The number 37 in $37 \rightarrow [7]$, represents the emission of galaxies impacting upon the emission groundstate that exists between galaxies and from which elliptical galaxies are constructed because [7] as 7 can represent the core of a galaxy or a star.

With 1 type of elliptical galaxy, 16 types of spiral galaxy, 13 types of globular galaxy, and 16 types of nebula galaxy, the total number of galaxy types is 46. This is the maximum state of construction at level [9] on the Paradigm. The time that it takes for an elliptical galaxy to evolve into a spiral galaxy is so long that within Human existence all the galaxies appear to be frozen in time.

The 11 planets within a solar system can be represented as individual levels of construction. As the 6th planet from the edge and the centre of our solar system, the Earth can be represented by level [6], in relation to the Sun being level [11].

To further reinforce the point that the Paradigm is more fundamental than their mathematics and measurements approach, the number 36 at level [11] as a state of “relative stability” can represent their so-called “universal” physical constants. The only thing in the Universe that is truly constant is the infinite cycle of its finite construction possibilities as specified by the Paradigm.

It's claimed that over fifty solar systems have been detected by the wobble in stars. The theory is that the wobble is due to the gravity of the planets pulling at the star. All stars rotate because they were once planets. They wobble because they have a dissymmetrical duality at their core, which is more active when the planet becomes a star. The less the wobble in a star the greater the prospect of there being orbiting planets, the very opposite of the present theory. This means that most stars have orbiting planets.

With the Paradigm, an atomic explosion involves the rapid compression of matter to the emission groundstate which causes successive levels of particle construction to attain their maximum state of absorption and brings the particles at each level into equivalence of emission resulting in a chain reaction of rapid repulsion and de-construction.

The Paradigm can be applied to the construction of an individual planet. A core of 3, a surface with 16 tectonic plates, and an atmosphere of 29 parts, could be a place to begin with the Earth: [7] $16 \rightarrow 29$.

The existence of the groundstate as cycles of absorption and emission, the dissymmetrical duality at the core of everything, the fact that everything absorbs and emits, and the rotation of particles and planets and solar systems and galaxies, are inherent aspects of the Universe: they simply exist.

Biology

All of Biology can be divided into two main types of organisms, called Eukaryotes and Prokaryotes, which exist in three domains of life. Prokaryotes can be divided into Bacteria and Archaea. There are 7 types of Archaea and 9 types of Bacteria. These could be represented by 7 and 9 in $7 \leftarrow (1) \rightarrow 9$ across levels [4] and [5] on the Paradigm. The combination of Bacteria and Archaea is 16, which would be represented as 16 in $9 \rightarrow 16$ at [5]. As the number 16 at [7] can also represent the maximum possible number of types of Prokaryotes, then the 13 at [6] must represent the maximum possible number of types of Eukaryotes. The number 22 at [6] can represent the total number of possible types of Bacteria and Eukaryotes.

The numbers for the Eukaryote and Prokaryote types are based on the Three-domain Phylogenetic Tree of Carl Woese, which is derived from RNA data. This tree has only 10 types of Eukaryotes listed. This leaves 3 types of Eukaryotes not accounted for in present RNA data. Given that these 3 types exist, the number 29 at [7] can represent the total number of possible types of Eukaryotes and Prokaryotes. Level [3] can represent a fourth domain, which is that of macro-viruses that have a minimum of 4 genes.

It has recently been announced that there may be more than three domains of life. Four and even five domains have been mentioned. Others have put forward the idea of the Last Universal Common Ancestor (LUCA). It's envisaged that there must be an organism from which everything else evolved.

Humans belong to the Eukaryote domain of Biology. Chromosome 22 is what makes Humans unique as a Eukaryote. Then there is the fact that the structure of the Human mitochondrial genome has 22 tRNA encoding genes and 13 protein encoding regions. $22 \leftarrow 13$ [6] can represent Humans as a maximum state of biological construction who live on a planet which is the 6th from the edge of a solar system.

Humans have 46 chromosomes, and the number 46 is the maximum state of construction at [9]. These chromosomes involve 32,185 genes. The number 32,386 is the maximum state at level [254]. The number 254 is the maximum state at [22]. Why isn't the number of Human genes a state of maximum construction? I should've added the word "presently" before "involve". It could be part of our nature that we complete our own biological potential with the addition of 201 genes to our genome.

The 201 genes may include the numbers 106 and 92 and 3. The numbers 106 and 92 appear at levels [14] and [13], and may also represent periods in the age of the Dinosaurs. Level [12] could also be connected to the age of the Dinosaurs, and has a minimum state of construction of 43 and a maximum of 79 types. The source of the 201 genes could be 3 early types of organism that existed in the age of the Dinosaurs.

The 9 states of minimum construction from level [4] to [12], add-up to 201. As level [12] is the first level in the age of the Dinosaurs, this could indicate that the age of the Dinosaurs evolved from this early type because [12] can contain 201. The identity of the early types could be mini-viruses, represented by 43.

The number 36 is the state of minimum construction at level [11] and may also represent mini-viruses. The present age may have evolved from this type of mini-virus. The number 67 at level [11]

may represent mini-viruses that exist today. Within the Carl Woese tree of life we may need to add a new branch within the Eukaryote domain to represent the 3 sub-domains or types of mini-viruses, and thus take the number of Eukaryotes to 13 as specified by the Paradigm.

The Last Universal Common Ancestor (LUCA) may not have been one but two types of mini-viruses from which the age of the Dinosaurs and the age of the present evolved.

Given that the addition of the 201 genes from the mini-viruses will complete the biological potential of the Human genome, it's reasonable to assume that this will give us complete protection against macro-viruses.

The location of the 201 genes would obviously have to come from something that existed in the age of the Dinosaurs. The most primitive form of life is Sponges. These can be classified into 13 classes or types. This number has numeric symmetry with the 13 types of the Eukaryote domain. The 3 types of mini-virus may be present in Sponges.

The two basic types of the Dinosaurs, as 92 and 106, establish a numeric symmetry between two of the largest possible constructions of life and the number of genes of 2 of the smallest possible types in mini-viruses.

It has been estimated that mini-virus of today have 911 genes. The maximum number at level [43] is 947 and the difference between 947 and 911 is 36. The numbers 43 and 36 represent the two domains of mini-virus from which everything else evolved. The 911 genes may relate to the 67 types of mini-virus which form 3 types or sub-domains within the Eukaryote domain.

There are currently 19 types of types considered to be animals. If we add macro-virus, that figure becomes 20. If we add 2 for the two different types of mini-virus from which all other animals evolved, that would bring the number to 22. With 13 types of mini-viruses across the two types at [11] and [12], the statement $22 \leftarrow 13$ [6] has even greater significance.

The Paradigm appears to indicate that the two different types of single cell organisms which evolved into the two different types of mini-virus where constructed from 11 amino acids within a context of heat and pressure. This could be represented by $79 \rightarrow [11] \leftarrow (4)$. These two types of organism would have been constructed from different combinations of the 11 amino acids. These 2 combinations can be represented as 22, so that once again we have $22 \leftarrow 13$ [6]. The differentiation of the two combinations of amino acids is represented by $43 \leftarrow (6) \rightarrow 36$.

An automatically generated tree of life based on completely sequenced genomes shows 191 species across 3 domains. The number 191 is the maximum state of construction at level [19]. Given that the 3 domains of life begin at level [4], we subtract 3 and obtain the number 16. [7] $16 \rightarrow 29$ could state that on a planet which will one day become a star, 16 levels of biological construction results in 191 species and 29 types of organisms across 3 domains.

At an even more fundamental level, the Paradigm could represent RNA and DNA as $3 \leftarrow (0) \rightarrow 4$. RNA has 3 components: guanine, adenine, and cytosine. DNA has 4 components: thymine, guanine, adenine, and cytosine.

Conclusion

The Church in the time of Nicolas Copernicus had the Earth at the centre of the solar system, because those that they seen as being created by their god could not be placed anywhere else. With the heliocentric theory the Sun was rightly placed at the centre. If our solar system begun with 11 planets, and with the Earth as the 6th from both the centre and the edge, there is a sense in which it has been returned to the centre.

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The Near-Infrared Galaxy Morphology can be obtained from here:

http://en.wikipedia.org/wiki/Galaxy_morphological_classification

The Three-domain Phylogenetic tree of Carl Woese can be obtained from here:

http://en.wikipedia.org/wiki/File:Phylogenetic_tree.svg

A list of the 46 Human chromosomes and the number of genes can be obtained from here:

<http://en.wikipedia.org/wiki/Chromosome>

A diagram of the Structure of the Human Mitochondrial genome with the 22 tRNA encoding genes and the 13 protein encoding regions can be obtained from here:

http://en.wikipedia.org/wiki/File:Mitochondrial_DNA

The automatically generated Tree Of Life that is based on completely sequenced genomes and showing 191 species can be obtained from here:

http://en.wikipedia.org/wiki/File:Tree_of_life_SVG.svg

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