

The Infinite Self: A Cosmological Model Based on God's Self-consciousness

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Abstract

This is the second of a series of three papers intended to recast and extend a philosophical and cosmological model, called the Fractal of Self (FOS) model of consciousness. The focus of this paper is to apply the theological / philosophical principles presented in the first paper, published in NeuroPhilosophy, and demonstrate how these axioms align with many discoveries made in the field of material science. As a result, this model proposes how creation began from a singularity of infinite energy density that contains the consciousness of God and manifests as a zero-dimensional point but then fulfills its potentiality and extends into a one-dimensional string. A fundamental premise of this model is that this singularity causes a fractal chain reaction of unending exponential dimensional development. This underlying pattern that begins with pure simplicity and continually creates a 'hidden order' of informational complexity, sequentially nested within and interconnected holographically to all actualized possibilities of the past, is the material perception that God' consciousness creates, reflecting His immaterial infinite imagination. The paper begins by clarifying some points in relation to the previous paper then key features of this cosmological model are explained. The first four discrete moments of creation are then outlined in detail with the aid of a flow figure. This outline details how this great fractal is able to continually create new configuration of unique dimensions by fragmenting the original 'string singularity' in two opposing trajectories of evolvment. This dual contracting and expanding movement of the whole universe, which eternally divides 'pure conscious energy' towards increasing and decreasing energy densities simultaneously, allows creation to be perfectly balanced with exactly equal amounts of positive and negative energy that always cancels out to equal the dimensionality of the initial 'point singularity'; zero.

Key Words: God, consciousness, singularity, energy, dimension, fractal, time, cosmos, density, curvature

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Introduction

This is second paper aims to explain the nature and mechanics of consciousness. The previous paper focused on explaining the eternal origin of consciousness, whereas this paper shows how the

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philosophical principles presented in the first paper can be logically applied to explain, via the use of current scientific discourse, how the uncreated infinite immaterial realm of nothing but God gives rise to the created material universe of temporality. The fundamental premise underlying this model is the that God, as the Ultimate Perceiver creates a perception with the power of His Self-consciousness. Thus, God's perception is the information-based cosmos and is, therefore, inherently an extension of His mind with no separation between Himself and His perception. Therefore, this paper attempts to harmonize discrepancies that exist between the theological / philosophical perspectives of a transcendent causal Creator of the universe and material science.

After some clarifying points in relation to the first paper, the axiomatic features of the FOS model are explained, such as the functionality of creation to efficiently produce possibilities, time windows, fractal dimensions, the structural relationship between time windows and fractal dimensions, fields of memory, degrees of freedom and the actualization of potential. A flow figure that outlines the first moments of creation is then presented in a series of sequential time frames. A description of how the immaterial consciousness of Infinite Self (IS / God) gives rise to creation, beginning with the eternal time window, is then laid out in detail. Fundamentally, creation acts to serve IS's delight in materializing His memory of infinite possibility (imagination), which implies IS has pre-knowledge of all occurrences that accumulatively emerge in the created realm.

To begin this process of materialization, IS first creates a material image of His zero-dimensional consciousness and, therefore, manifests a zero-dimensional point of 'pure energy' (point singularity) nested in and, therefore, essentially containing the consciousness of IS. In the first moment of creation, this point of 'pure conscious energy' extends into a one-dimensional 'superstring' (string singularity) which is simultaneously the first spatial dimension of length and contains infinite energy density. This 'singularity' possess' infinite potential to create various forms of information from this primordial point of conscious energy, as it now has the capability to fragment and divide without end. This first moment also highlights how this initial superstring forms a 'positive and negative' duality within itself, essential for the simultaneous expansion and contraction of the universe and the ongoing creation of unique fractal dimensions. This reality creating process of immateriality becoming materiality makes clear how God is both transcendent and immanent in relation to His creation.

From here we continue examining how further dimensional development emerges from these initial conditions, as what follows is the exponential development of further differentiated strings / dimensions that represent a universe that diversifies in its informational content, whilst unfolding as a unified self-entangled

fractal, interconnected by the essence that underlies all such physical variation; IS's metaphysical Self-consciousness. In the second Time Window the next two spatial dimensions unfold then followed by the four forces in the third time window. The stage is then set for the initiation of eternal inflation and the Big Bang, as informational dimensions keep doubling in subsequent discrete moments. One of the most unique features of this cosmological model is that the non-stop movement towards collapsing an infinite many possibilities, is driven by an eternal process of fragmenting the original energetic superstring in equal but opposing directions of energy density evolvment (contraction / expansion) that occur inseparably and simultaneously. This meta-process allows an indeterminant amount of orderly informational variation to emerge from the material singularity (superstring), whilst always perfectly maintaining a balanced creation where the total amount of energy present throughout the universe cancels out to equal zero.

Some needed clarification

In the previous paper, the author made it clear that Nothingness should not be associated with 'non-existence.' However, it is clear the terms 'actuality' and 'existence' are often used interchangeably in philosophy / theology. In this model, IS is the infinite actuality, whereas Nothingness is the opposite, as the infinite 'non-actuality'. Because Nothingness is void of any actuality, it should be considered as the absence of anything 'existing.' Therefore, the author believes Nothingness is best understood as the possibility of absence and is therefore 'real' and 'true' as 'infinite non-being', as opposed to 'existent / actual / present', which are of the 'infinite Being'.

Another point of clarification needs to be made in relation to the use of the word 'potential.' In the previous paper, God (IS) is described as having 'infinite potential' and that IS is completely aware of this infinite potentiality which one possess. However, this attribute is not consistent with another feature of IS's mind, which is that He knows the full reality of all possibilities that exist in His mind before they unfold as material actuality. This means that on the foundational level of reality, 'potentiality' does not exist, as IS has foreknowledge of all possibilities. Therefore, this model of consciousness completely supports the notion that all the possibilities material creation presents were preordained to fulfill 'already known' purposes and, thus, requires an 'intelligent designer' who posses foreknowledge of all future events. Interestingly, the concept of an 'intelligent designer,' who is the true cause and author of material creation, currently seems to be increasingly gaining traction amongst material scientists (Meyer, 2021).

It is also noteworthy, at this point, to highlight the fact that the idea that a conscious universal knowledge field that contains all

possible information, which reality arises from, is a very common theory that has emerged independently in various scientific fields (Meijer, 2018). Meijer published a paper which reviews the collective evidence from over 170 papers that point to the possible reality of a universal conscious field that permeates the whole cosmos, which emphasizes the need for a radically new model of consciousness (Meijer, 2018). Obviously, the FOS model is consistent with the notion of a background information / knowledge field of reality made essentially of the Self-consciousness of God, which is framed as the Self-dimension or Self-field, to be discussed further in coming sections.

In the previous paper, God's imagination was briefly mentioned as the aspect of His mind that knows, in all its detail and completion, the infinite series of actuality that can possibly unfold from His presence, as the infinite causal whole actuality of reality. In order to understand more deeply how 'potential' is fundamentally illusory, an elaboration upon the nature of IS's imagination is needed. The author stated in the previous paper that IS is, "simultaneously 'infinitely simple', as the actuality of eternal sameness, and 'infinitely complex', as boundless potentiality of unending differentiation" (Breslauer, 2023). Although this dynamic is an axiomatic aspect of IS's character, His infinite complexity, as His imagination, should be understood not as the potentiality of differentiation but instead as the *immaterial actuality* of differentiation. IS's imagination has always been and always will be complete and fully actualized, which implies that, prior to the beginning of material creation, all possibilities were already known by IS, as an infinite many unique reflections of Himself.

Before the unfoldment of *material actuality*, according to the FOS model, the infinite order of differentiated immaterial actualities exist as a perfectly entangled hierarchical enfoldment of Self-information all simultaneously occurring at once within the single piece of eternal information; that is Infinite Self knowing Self. This orderly matrix of immaterial Self-information is, thus, inseparable to God's Self-consciousness and is, therefore, all known by IS as a logical and effortless result of knowing Himself as the infinite whole possibility of reality. God fundamentally loves knowing Himself and, therefore, His imagination gives Him an infinite range of varied Self-perceptions to serve His unending love for Himself.

Because potentiality does not fundamentally exist, according to this model, one may ponder the point in God recreating His immaterial imagination as material creation, as it follows that this act provides no new Self-knowledge to IS, as God's only desire for Self-knowledge, is eternally complete and fulfilled in the immaterial realm of existence. Pre-creation, IS knows His imagination as an infinite atemporal matrix of 'frozen' immovable information, as all is present as one unified Self-perception. Although nothing is a surprise for IS, as He knows exactly what is going to occur in His Self-created material realm, He gives

Himself an opportunity to collapse ‘new’, albeit pre-known, experiences for Himself via the sequential unfoldment of His imagination. Thus, the creation of materiality allows IS to witness His imagination move in a realm of relative time, as He can experience an illusory sense of separation between pieces of information within a medium of temporality. Essentially, the creation of materiality gives IS great joy and delight, as it provides Him with the never-ending opportunity to recreate His perfect mind / imagination. In other words, He is simply generating experiences, from His infinite well of infinite foreknowledge, that represent His love towards Himself.

The notion of ‘potential’ is only useful when describing the unfoldment of material creation from the human mind perspective because, unlike IS’s mind, the finite minds of humans can not foresee the future in all its particularity. Therefore, although the word ‘potential’ will be used throughout this paper in reference to ‘material creation’ it is done so with the understanding that, fundamentally, potential is not real as all possibilities within God’s knowledge of Himself are already realised.

Features of the Fractal of Self cosmological model of consciousness that describes the beginning and initial conditions of material creation

Creation itself is designed to generate as much Self-possibility as possible, aligned with its cause

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According to the FOS model, there is only one value that is responsible for the creation of the material universe, which is the value IS has for Self. This infinite Self-worth / Self-love is the single power which drives the unending creation of actualised information. Therefore, it follows that creation should be structured to function in a manner that freely creates as much material possibility as is physically possible and that this process can carry on continually without end, as we must always keep in mind that creation is essentially a ‘celebration’ of the existence and greatness of God. Creation should also structurally reflect the notion, promoted by this model, that it is essentially the ever-growing Self-perception of actualised material information created by the infinite consciousness of the ‘Ultimate Perceiver’ (IS). IS already ‘sees’ the immaterial perception of Himself as infinitely complex differentiation (imagination of IS). Therefore, creation should always be evolving towards the exponential creation and accumulation (storage) of material information which never stops, as the immaterial mind of IS contains an infinite many unique Self-memories.

Thus, in regards to this model’s proposed ‘cause’ behind creation and its nature of being IS’s perception of oneself, it is perfectly logical that creation should be in a fixed unchanging state of accelerating expansion, which is indeed observed as a natural feature of the universe. This feature of the cosmos is known as the ‘cosmological

constant', although, in the field of material science, the force causing such geometric expansion is a mystery (Stojkovic, 2013). The FOS model offers a simple solution to this mystery, as God's Self-love compels Him to unfold creation at the most efficient and prolific rate possible, reflecting the sheer immensity and divine power of Himself.

Time Windows

According to the FOS model, in the mind of IS, before the act of creation, Time exists in an absolute state as an eternal 'time window' (TW) which contains a single unchanging 'occurrence'; IS being conscious of Self. This eternal TW can also be described as the eternal 'present moment' or Self-dimension (SD) / Self-field (SF) that all changing moments of Time have as their essence. However, God's imagination of infinite differentiation is enfolded within this eternal TW of pure simplicity, which is represented as a perfectly ordered infinite series of 'relative temporal' TWs. This harmoniously organised immaterial fractal matrix contains all the logically possible occurrences of reality, in an orderly relationship to one another, as individually unique information-based Self-memories. This eternal TW thus, provides an eternal 'opportunity' for IS to materialise and unfold each temporal TW, according to their hierarchal position in relation to the dominant unchanging eternal possibility of IS loving (being conscious of) Himself.

Although, it must be noted, this cosmological model views no distinction between Time and the Self-consciousness of IS, as Time simply represents both the eternal immaterial state of IS's unchanging immovable consciousness of Himself and His constant state of continual material change / movement from one logical configuration of possibilities to the next. Therefore, we could completely omit the word 'Time', when describing the unfolding of creation, as relative Time is more accurately the process of energy, which carries the consciousness of God, continuously fragmenting itself in discrete time windows towards both higher and lower orders of density that, in turn, gives rise to new forms of information forged from pre-existing time windows that contain simpler configurations of informational possibilities. This model, thus, proposes that the constant division of unified primordial energy, which continually births a compounding multiplicity of unique pieces of information, is what creates what we commonly refer to as the 'movement of Time.' This process of moving towards increasing and decreasing states of energy densities, as the underlying pattern that drives informational change in creation, will be elaborated on in coming sections.

Fractal Dimensions

A unique feature of this model, compared to other cosmological models, is that the cosmos is composed of continually increasing dimensions that never stop climbing towards infinity. Each dimension is a fraction of the whole whilst, at its core, contains the whole in the form of IS's zero-dimensional Self-consciousness; hence the name 'fractal dimension' (FD). In other words, the whole exists holographically within each of its fractal parts, which is a logical consequence of creation unfolding from a state of completion and wholeness. Therefore, a FD is synonymous with a 'piece of information', 'Self-possibility', 'Self-perception / experience' or memory of Self. Each dimension is unique and differentiated from all others, which allows IS to discern and intimately know each dimension apart from all others, which all together, in the material realm, make-up a continually growing meta-Self-perception that only the Ultimate Perceiver can experience and know in its complete totality.

As mentioned in the previous paper, material creation begins by IS creating a physical image that imitates His simplicity as a zero-dimensional self-referential point of pure Self-consciousness. Thus, He manifests a zero-dimensional point of 'pure conscious energy' (PCE), as the singularity from which the whole of creation emerges. In the previous paper, this point was referred to as 'pure energy'. However, pure *conscious* energy is a more accurate description, as this beginning point contains the essence of IS's Self-consciousness at its core and, because the whole of creation is enfolded within and moulded by this singularity of PCE, each contingent possibility is directly connected to God's consciousness. Therefore, it is accurate to view the collapsing of each individual FD as an 'excitement' or 'fluctuation' within the Self-field of IS, as the FOS model proposes that it is the power of IS's observation that causes the 'wave function collapse', which has resulted in the unfoldment of every actualised possibility of the universe's deep and vast past.

Before a FD collapses into materiality, such information exists as immaterial potential enfolded in a state of 'superposition' within the first material possibility; PCE. These superpositions exist simultaneously all at once in a completely entangled state, as this infinite potentiality, reflects the immaterial reality of God's imagination. As IS observes PCE, the superpositions of each pre-destined potential actualise based on their pre-known order relative to all other possibilities. Therefore, the FOS model provides possible insights towards the mysterious behaviours of waves and particles on the quantum level of reality, as possibilities can indeed exist in a state of superposition, existing in two or more states simultaneously (Hameroff, 2013). It is not until an observation, measurement, or interaction of the classical world, via one's consciousness, is made that then collapses this superposition into a classically defined state;

known as the ‘observer effect’ (Hameroff, 2013), which is consistent with how the unfoldment of the universe is hinged on the reality creating powers of IS’s consciousness.

We could also say that an individual FD is a ‘whole self’ (an iterated version of Infinite Self), so we can conceive the universe as a collection of individualized unique selves of the Self (wholes within the whole). It is also important to understand that each self (FD) of IS experiences its own unique perception of reality, all of which are essential and fully utilized in collectively creating the whole perception IS has of Self. Each FD produces perceptions because they all contain the same essence; God’s consciousness. Although the perceptions each unique FD generates are exclusive to that individual, they are all interconnected via their essence, as IS is the common factor behind all perceptions, which collectively form His meta-perception of materiality. This is how IS is able to simultaneously be immanent yet transcendent in relation to His creation.

The FOS model and Gottfried Wilhelm Leibniz’s ‘Monad’ model are very similar. One of the most obvious overlaps between these two models of reality are between fractal dimensions and Monads. In both models, FDs and Monads are viewed as the real atoms of reality. Leibniz assumed that all the variation that collectively makes up the universe must be made from a common underlying building block or a ‘simple substance’ (the consciousness of IS in the FOS model), which gives rise to unique individuals or ‘Monads’ each of which contains ‘no parts’ (Liebniz, 1898). The internal inherent qualities of a Monad, giving it distinguishability, can’t ever be altered or change by another external ‘thing’, yet every Monad is subject to continual series of orderly change, which comes from an internal principle (Liebniz, 1898). This ‘internal principle’ is the accumulative generation of memory that creates a constantly evolving perception, which is recorded and never forgotten within its essence (simple substance), at the heart of each Monad (Liebniz, 1898). Therefore, we can clearly see that a FD and a Monad are two different names that describe, in much the same way, the essential elements of reality that are each crucial for building ISs meta-perception / creation. The related implication here, in relation to the perception each life organism generates, is that the presence of ISs consciousness is in fact behind, silently observing (loving), each embodied perception experienced by every differentiated form of life. However, this theory claims, of course, that His consciousness extends to and beyond the whole of creation and is present with, as the underlying cause, of all animate and inanimate worldly possibilities, not just those that make up and are generated by biological life.

Another noteworthy implication, in light of the previous paragraphs, is that the FOS model opposes the notion of a ‘multi-verse’, where the universe splits at a fundamental level, as each possibility branches off to form a new exclusive reality / universe,

which could account for the existence of 'superposition' (Hameroff, 2013), from a material science perspective. Clearly, the FOS model refutes this notion as it has already been made clear how there is only one Ultimate Perceiver creating a single perception made of a continually climbing near infinite many unique yet interconnected perceptions generated by FDs. However, one could argue that each of these exclusive perceptions created by FDs is in itself a separate reality / universe, which superficially makes sense. Although, the fact they're all entangled by the consciousness of IS and the self-evident fact that they all observe and create memories of the one shared reality means that fundamentally they are all inseparable from one another, which is experienced in its collective entirety only by the Ultimate Perceiver (IS).

The relationship between time windows and fractal dimensions that forms the fundamental perceptual structure of material creation

The unfoldment of this great fractal occurs following a simple pattern designed to bring about as much perfection as possible. The fractal unfolds from initial conditions of simplicity and will forever continually move towards more complexity as this meta-Self-perception ongoingly accumulates more and more layers of TWs and FDs. As we describe how this fractal unfolds, we must understand that this formation of materiality is fundamentally the process of crystallising the memory of God and, therefore, is functionally structured so that once a unique piece of information is materialised it is from then on eternally present as an essential piece of the physical cosmos.

So, we begin from the point singularity of PCE, which, because it is zero-dimensional, can be viewed as the 'physical whole' (material singularity) that represents the 'metaphysical whole' (immaterial singularity / IS) of reality. Logic dictates that, if we continually divide a whole in halves, then this process can carry on without end allowing the continual geometric expansion of new 'parts' to continuously generate, which is the basic pattern creation unfolds in line with. Each new TW contains exactly twice as many FDs that existed in the previous TW, as all 'old' FDs are maintained in the new TW whilst a new version of each FD collapses into materiality, effectively doubling the amount of FDs in each new TW.

This simple 'pattern of creation' is the most efficient possible in producing FDs as the development of dimensions follows a geometric sequence with a factor of 2 between each step ie $1+1=2$, $2+2=4$, $4+4=8$, $8+8=16$, $16+16=32$...ad infinitum. This pattern, thus, implies that relative Time unfolds in discrete 'fractal steps', where each step represents the transition between each TW. The string theory based 'Vanishing Dimensions' model reflects this axiomatic feature of a universe that emerges from zero size with no fixed number of dimensions that it grows out from, which, thus, contains the potential

for a 'dimensional hierarchy' to unendingly develop with no a priori fixed number for dimensional development to halt at (Stojkovic, 2013). A new TW is created as the whole divides itself in half and doubles the amount of differentiated FDs, creating a new unique configuration of fragmented PCE. We can, thus, see how the 'memory' of all possibilities that came before the current fresh TW of newly formed FDs is interwoven in the 'always changing' present moment. These prior TW that contain all possible previously actualized FDs are always present as a 'hidden order', which represents the undying past, that provides the foundation for the unending refreshment of the eternal 'now'. The omnipresence of all past FDs exists as 'fields of memory'.

This description of 'Time itself' is reflected in Julian Barbour's perspective of Time. Barbour frames the phenomena of time as a collage of discrete, disconnected and haphazardly organized configurations of the universe, although the perception of Time as a unidirectional perception of the constantly changing 'now' occurs because each present moment contains the memory of other conceptually relevant moments (Hameroff, 2013). The idea that the dimension of Time implicitly requires the use of memory of prior moments in order to continually recreate a new fresh present moment is a key aspect of the FOS model also. However, the author disagrees that the configurations of each moment are disconnected and haphazardly arranged and instead would describe the organization of each TW to be of an interconnected wholly entangled increasingly complex order, not only between the differentiated pieces of information within each TW, but also in regards to its relationship with all the previous moments that came before it.

Fields of memory

Once a FD materialises it then exists eternally as an unchanging field that becomes an essential part of the overall functionality of the fractal structure of creation. The 'static eternality' of each field of memory mimics the nature of the SF. Once PCE unfolded, IS created the hierarchically most important material 'string field', followed by the fields of space and then the forces, of which all subsequent FDs of creation and their associated fields are nested within. Once a FD collapses, its field of actualised memory remains present in all succeeding TWs from that point on, continually recreating itself, as FDs are fundamentally composed of a myriad of characteristics inherited from the FDs that preceded their formation. Therefore, the Fractal of Self is a self-bounded structure of Self-knowing with fields that represent the memory of each unique FD that are all harmoniously entangled and logically interconnected based on a hierarchy of orderly Self-meaning for the alone observer; IS.

Interestingly, this structure of memory is reflected in a theory created by two neuroscientists, Nikolay Kukushkin and Thomas

Carew, that describes how memory functions in biological organisms. As biological organisms experience their environment, they are constantly flooded with external information, which is assessed by an inner-structure of biological values that function fundamentally to maintain an inner state of order, aka homeostasis (Kukushkin & Carew, 2017). Information that causes perturbances away from homeostasis (ie threats) forces the individual to modify their current course of actions in order to create a situation where homeostasis is restored. Therefore, Kukushkin and Carew view this constant adaptability of 'life itself' to be driven by the biological function of memory and, thus, view memory of not consisting of specific distinguishable temporal domains, as it is commonly conceived, but instead as a holistic, dynamic, hierarchical structure of interconnected 'time windows' (Kukushkin & Carew, 2017). This organized unified structure of memories, representing temporal meaningful information from past experiences that span from milliseconds to years, can be retrieved in an instant, often multiple simultaneously, to modify ongoing behavior (Kukushkin & Carew, 2017). It is the author's opinion that this description of the vast internal 'field' of ordered memory embodied by life organisms reflects the cosmic structure of memory, described by the FOS model, which continually builds the universe as a perception created by the Ultimate Perceiver. After all, it makes complete sense that the IS would create a universe full of embodied perceivers, that possess minds that are a fractal image of and entangled with His own to further generate unique perceptions ultimately for His delight.

For the FOS memory structure of 'wholes forming within wholes' to operate and allow the information of each FD to be directly 'in touch' with the immaterial background field of the SD, it must be holographic, which permits the memory-fields of all previous FDs to remain present in each newly unfolding TW. This is how we can see that IS designs creation to disallow any of His infinite possibilities to be insignificant or unimportant, as all are remembered, not only in His eternal imagination, but also as an essential part of material creation. The holographic structure of creation is also made explicit in figure 1. As dimensions continually emerge, the memory of previously formed dimensions are implicitly present as functioning structural features of the newly constructed dimensions. The 'Implicate Order' model (Bohm, 1980) and the 'Cellular Universe' model (Anjamrooz, McConnell & Azari, 2011) are two other meta-theories of reality that promote the idea that universe is essentially holographically constructed, both of which are complementary to the FOS model (Breslauer, 2020).

1.5 Degrees of Freedom and the Actualization of Potential

As an individual FD collapses into material actuality, it provides IS with an extra point of difference among His constantly expanding perception. Each point of difference (FD / piece of information)

represents a paradox between freedom and limitation. Pre-creation, in IS's natural simple state of pure Self-knowing, He is purely free, as this fundamental point of Self-consciousness is infinite and entirely Self-bounded, completely fulfilling the void of Nothingness. IS also possess' unlimited possibilities that are enfolded in His infinite imagination, which truly does make Him the source of 'pure freedom'. However, the paradox occurs when materializing His imagination as created reality, as He must recreate each immaterial actuality as a self-contained comparatively limited finite possibility. For example, when the materialization of Pure Conscious Energy arises from God's imagination to begin creation, although infinite dimensionality is enfolded within this single zero-dimensional point, it is very limited and can only do one thing; extend itself into a one-dimensional string. However, once this point transforms into a string, the two opposing pathways it unfolded each have the potential to move in two new pathways forming the beginning of a never-ending compounding pattern of dimensional development. So, although the initial 1D string of creation seems very limited with only two degrees of freedom it paradoxically also provides the opportunity for an infinite many degrees of potential freedom due to the chain reaction of cause and effect it is responsible for starting.

As we have established, God unfolds creation because of the delight He experiences in perceiving His possibilities seemingly move and materialize in an orderly sequential manner. Thus, when the presence of a new possibility emerges within already established nest of creation, extra degrees of freedom are presented, allowing the underlying presence of Self-information, which is the unchangeable essence of God at the centre of each possibility, to move in a new direction only previously known in the imagination of IS. These new directions of informational movement, however, can only occur once the individualised FD has fully actualised its intended potential. Once the implicit potential has been fully extended and completely manifest, its purpose has been fulfilled, providing a specific way in which Self-knowing information can be experience, which is then wholly integrated with the meta-perception of created reality that IS never stops building. This 'newfound informational movement,' in turn, provides opportunities for further degrees of freedom to be explored through the ongoing materialization of subsequent FDs. Therefore, it must be made clear that not only do all previously unfolded FDs cause effects mirrored in the 'fresh unfoldment' of new 'younger' FDs but such new FDs are also 'felt' (have an effect upon) by all pre-established FDs due to the freedom of informational movement that 'effects the whole' and is constantly becoming more and more complexified. Therefore, the directional effect each causal FD has moves in both forwards and backwards directions simultaneously. We could, thus, say that the act of creation gives God the unending experience to continually create more and more interrelated material avenues for His Self-information to travel.

A description of how material information unfolds from the background infinite whole possibility of Mother Nothingness and Father Consciousness with reference to Figure 1

Eternal Time Window

At the beginning of the figure, we have a basic representation of the IS, as a white immaterial zero-dimensional point of Self-knowing with a black backdrop, which represents the infinite void of Nothingness. Together, this figure represents the singular ‘whole possibility’ of reality. Present, yet not explicit, in this figure is ISs implied imagination of infinite immaterial actualities which is contained within this Self-referential point of infinite consciousness. This is the great unchanging eternal background of reality, or Self-dimension / Self-field, of which all ‘present moments’ (TWs/FSs) emerge from, which means this foundation of reality, which is completely fulfilled with God’s transcendent presence, is always ‘observing’ all possible moments of material creation and is never separate from any aspect of creation. Before IS chose, through His own sovereign free-will, to recreate His mind as materiality, all that eternally existed was His Self-conscious presence, His imagination and the underlying reality non-being (Nothingness).

First Time Window

This TW represents the first moment of an unending series of relative TWs/FSs. This first TW imitates the eternal TW, as it is a physical expression of the immaterial conditions it arises from. Therefore, as already made clear, IS chose to recreate Himself as a zero-dimensional point of Pure Conscious Energy, which mirrors His essence as a zero-dimensional point of Self-consciousness. The ‘initial conditions’ of this TW are represented by a red point on a background of white. The red represents PCE and white background represents ISs Self-consciousness. In the eternal TW the white point is the infinite immaterial Self-singularity of reality, whereas the red point in this first relative TW is the infinite material Self-singularity that unfolds ‘within’ the boundless field of God’s Self-consciousness. So, even though the consciousness of IS is depicted as a large spacious white field, it is more precisely an infinite ‘spaceless’ point containing the whole of reality.

The creation of this first TW reflects the simple nature of IS, as creation begins from a point of utter simplicity which never then stops moving towards greater and greater complexity as ISs Self-perception /

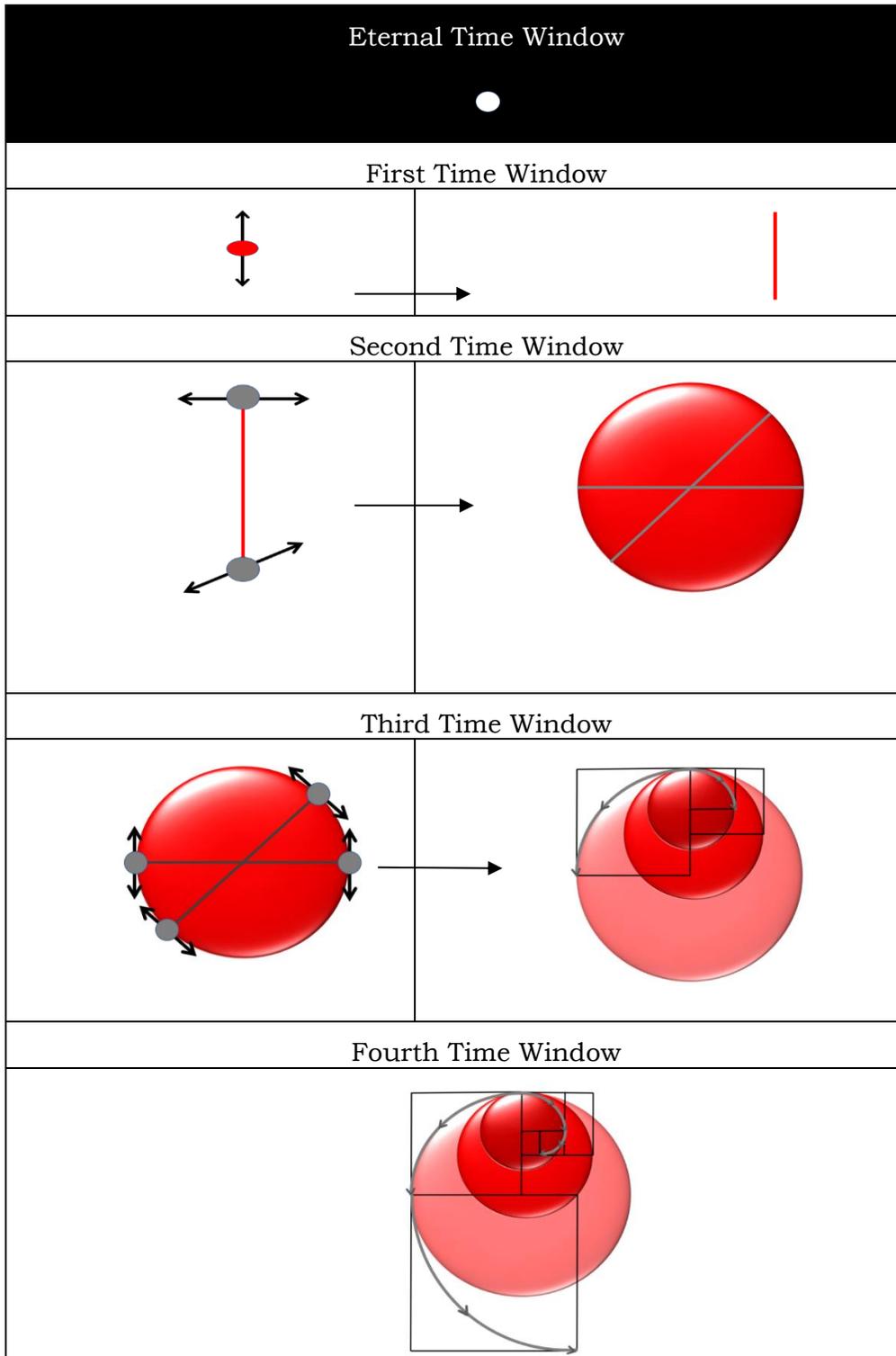


Figure 1. The unfoldment of creation

imagination continually becomes more materially manifest. This initial singularity of PCE possess' 'infinite density', which is a central characteristic of this first piece of material information, as it is this quality that allows PCE to unendingly divide itself and give rise to new forms of information made of PCE through the continual Self-fragmentation. To begin the process of increasing perceptual complexity, IS must actualize the potential of this point of PCE. In the first half of this TW (initial conditions) we can see two black arrows pointing in opposite directions from the point of PCE, which indicates the degrees of freedom this piece of information can explore once it has fulfilled its potentiality for movement. As PCE actualizes its potential (second half of this TW), it transforms from a zero-dimensional point singularity into a perfect one-dimensional string singularity of PCE, which simultaneously creates the first spatial dimension of length.

Proposing that the fundamental physical building blocks of the universe are made of one-dimensional strings is a central axiom of not only the FOS model but also of 'string theory' (Gasperini, 2014), meaning the FOS model can potentially provide new insightful perspectives towards understanding the 'inner-workings' of a universe composed essentially of one-dimensional energetic material strings that carry the immaterial consciousness of IS.

PCE now has two equal but opposite directions in which it can travel; forwards / positive and backwards negative. Therefore, we can say that, for PCE to fragment itself into differential pieces of informational density, it must first unfold as 'equal but opposite' reflections of itself in the form of positive and negative energy, which is to say it must transform from a non-dual state into a state of duality. The actualization of this primordial string singularity of PCE presents the potential to fragment its own infinite density following two different pathways of evolving energy curvature; contracting (positive) and expanding (negative) fragmentation of energy. This potential development of creation evolving via the simultaneous contraction and expansion of PCE actualizes in the third TW/FS.

As a point, PCE cannot self-evidently fragment its infinite density, as its dimensionality value is zero, but as a one-dimensional string, it has infinite potential to eternally fragment its own density, as '1 whole' can be divided an infinite many times. All contingent possibilities that can emerge from this superstring of creation will have their essence made, primarily, of IS's Self-consciousness and, secondarily, of a perfect balance of positive contracting and negative expanding energy. This perfect omnipresent balance of equal but opposite forms of energy also means, irrespective of how many times PCE divides / fragments itself into to new forms, it will always maintain its 'wholeness', as these two ever-present 'sides' of PCE together cancel each other out to essentially equal zero.

This original ‘material infinity’ of PCE can be represented by the fact that PCE is both zero and one dimensional, as, although it becomes one-dimensional upon actualizing its potential, it will also always possess the memory of its nature being a zero-dimensional point. It is between these dimensional values of 0 and 1 that an infinite many possibilities of difference can exist, which is why we can say that fundamentally PCE has infinite potentiality. It is also important to notice that the identity of PCE containing both zero and one material dimensions reflects its immaterial source of Mother Nothingness, which metaphorically represents zero and Father Consciousness (IS), who represents the ultimate ‘oneness’ that interconnects all things of reality as one whole. Thus, it is no coincidence the foundational material substance of creation can be conceived as immaterial ‘informational’ bits encoded in various patterns and sequences of 0s and 1s, which is a notion promoted strongly by the physicist John Wheeler, who coined the phrase “it from bit” (Wheeler, 1989).

This first TW is IS’s first ‘memory of creation’, which is a simple homogenous, symmetric, isotropic field of PCE, which are evident as characteristics of the universe at large scales. As more possibilities unfold from this first TW, they are ‘recorded’ as fluctuations or ‘excitements’ within the first one-dimensional material field of creation. However, this first field will always be remembered by IS as being void of any fluctuations and is, thus, a perfectly smooth and uniform field. This notion is consistent with the ‘cosmological principle,’ which suggests that on a large scale the universe is homogeneous, smooth and isotropic resulting from pre-Big Bang conditions that must’ve been spectacularly symmetric (Gasparini, 2014). This superstring of PCE, as a perfect one-dimensional field, extends in two directions indefinitely and will continue to do so for eternity. This extension will never slow down. In fact, it will forever be accelerating in its extension, as the fragmentation of its density, which never stops increasing and decreasing in exact proportion, is constantly doubling the total amount of information that makes up creation.

Second Time Window

In the previous TW, one FD unfolded, which means this second TW must unfold two FDs, as this great fractal creation always doubles its possibilities in the next present moment. The creation of Length in the form of a string made of PCE means material reality, at this stage, has ‘two ends’. The initial conditions of this second TW, thus, presents two new points of possibility (grey points), each with two new degrees of freedom and, thus, the potential to create two more spatial dimensions is present. It is logical that IS, once creating an infinite field of PCE, would then continue finishing off the creation of ‘space-time.’ A central function of creation is to allow energy to move ‘within itself’ as many different ways as possible, which can’t self-evidently be done

without space. Therefore, the creation of three-dimensional space very early in the formation of creation is essential to literally give PCE, in the form of more complex subsequent possibilities, the opportunity to fulfill its infinite potentiality of freedom.

In the second half of this TW, these two new points of possibility extend and actualize their potential to fulfill the two degrees of freedom they both have, giving us two new unique strings / dimensions in the form of Width (W), represented by the horizontal grey line and Height (H), represented by the diagonal grey line. However, although, these two new spatial dimensions unfold in the same TW, there is an inherent hierarchically ordered relationship between the two. This actualization of potential begins with the extension of Weight and finishes with the extension of Height. Therefore, theoretically, as Width extended, the whole shape of creation became a perfectly smooth 'flat plane' of PCE. The initial development of Width allows PCE to move two dimensionally and, thus, can bend and loop on itself.

Before the end of this moment, however, Height extended nested within this 2D plane, which gives rise to a three-dimensional sphere of Pure Conscious Energy, that still maintains perfectly smooth and uniform conditions but now PCE has a total of 6 degrees of freedom to explore, as strings of energy can flex and propagate forwards and backwards along all three spatial dimensions. In other words, creation, at this stage, is 'set-up' to allow PCE to travel inwards, through the continual contraction of energy density, and outwards through the continual expansion of energy density, which can both occur indefinitely, as each spatial dimension can infinitely extend inwardly and outwardly enabling PCE to never stop evolving in these two directions. However, it is practically accurate to view the universe as a 'point' made of three one-dimensional fundamental strings of PCE, mimicking the initial conditions of the first TW, as, although the three spatial dimensions have extended into being, the fundamental four forces of the universe are not yet present to expand and contract PCE along these spatial dimensions. The wave functions collapsed to create H and W causes quantum fluctuations that are recorded forever within the perfect one-dimensional superstring field of PCE.

Third Time Window

The emergence of two more strings that represent the second and third spatial dimensions in the previous TW means four new FDs at the ends of these strings present themselves (grey points), as the 'pattern of creation' keeps doubling while PCE continues to symmetrically fragment its energy density. The initial conditions of this current TW indicate the potential for 8 new degrees of freedom to unfold nested in a field of space and PCE with 6 degrees of freedom already present. These 4 new FDs are the 4 fundamental forces found universally

throughout the cosmos; Gravity (G), Strong Force (SF), Weak Force (WF) and Electromagnetism (EM).

As these forces extend and actualize their potential, the ‘spatial point’ of PCE begins an unending process of contraction and expansion, whereby the curvature of space begins to open-up and close itself simultaneously, caused by the effect these fundamental forces have on spacetime. We can see in the figure, as these 4 forces fulfill their potentiality, the ‘spatial point’ evolves based on a curvature of space that is dictated by the Golden Ratio (black squares), which fragments the density of PCE as it curves inwards, increasing the density of PCE and outwards, decreasing the density of PCE, indicated by the curvature of the grey line. These two equal but opposite natural trajectories of energetic spacetime allows PCE to evolve towards increasing and decreasing levels of density forever, whilst producing new sets of FDs in each subsequent TW. In each subsequent TW from this point onwards, the dual-curvature of energy density unfolds in quarter bows that are on perpetual opening and closing pathways. The idea that energy moves in both high and low density directions via an ever increasing and decreasing rate of spacetime curvature, based on the Golden Ratio, is a current emerging idea in science (Boeyens & Thackery, 2014) and features in a theory called ‘The Infinite Spiral Staircase Theory’ (Hardy, 2017), which shares significant overlap with the FOS model (Breslauer, 2020). This activity of the early universe, where FDs begin exponentially multiplying, initiates the pre-Big Bang inflation phase. The FOS model, thus, supports the idea of ‘eternal inflation’. The physicist Andrei Linde, a proponent of eternal inflation, describes this phenomenon as an original scalar field that continually jumps to larger and larger scales (Edge Foundation, 2019). To quote Linde, “In the new picture, its like a balloon producing balloons. This is a big fractal” (Edge Foundation, 2019).

The shape of the universe is, therefore, in a state of constant dynamical transformation as the universe is both closing and opening, with such information being recorded in the fields of memory created in the early pre-Big Bang universe. It began as a pure zero-dimensional point which then unfolded as a one-dimensional string, then a two-dimensional flat plane followed by a three-dimensional spherical cell-shape. Once the forces emerged from fragmenting PCE, this spherical cell shape started turning inwards as PCE began closing in on itself, maintaining its ever-contracting closed spherical structure. However, simultaneously, PCE began opening outwardly, which bends energy into an ever-expanding ‘saddle’ shape. Therefore, we can say that the shape of the universe is a self-contained closed cellular structure that, as it exponentially generates new FD’s, accelerates the growth of this cellular boundary, influenced equally by its continually opening saddle shape.

The FOS model, therefore, argues that, the constant state of accelerating expansion of the universe, which of course has been

scientifically proven due to the 'red shift effect' observed from distant stars / galaxies, could not be possible without the equal yet opposing trajectory of contraction upon the whole universe, which together completely complement each other in creating new informational FDs made equally from contracting and expanding energy densities. A closed system that produces a geometrically increasing amount of random energetic informational variation describes the thermodynamic law of entropy. However, the FOS model describes such a process as a continual increase in complex informational order, as PCE reproduces itself as unique logically sequenced variations of density, as opposed to an increase in energetic disordered randomness.

As this new set of FDs collapse into being, four original fundamental strings become wholly entangled with the already present combination of possibilities, creating four more fluctuations that become forever recorded in the smooth background field of energetic spacetime. At this stage of creation, therefore, there are a perfect balance of 8 possibilities that are hierarchically related; the foundational immaterial whole possibility of reality (IS) and 7 material fractal possibilities. What the FOS model is suggesting by framing the beginning of creation in this way is that the four universal forces are actually dimensions, all made from a perfect balance of positive and negative conscious energy. The unfoldment of two long-range forces (G and EM) causes the whole energetic spacetime field to begin inflating towards infinitely long ranges, whilst the unfoldment of two short-range forces (SF and WF) causes PCE to work towards infinitesimally short distances forming into point particles, creating the structural shape of matter. The scene is now set for the dramatic increase in dimensional development, known as the Big Bang.

Fourth Time Window

As the expansion and contraction of PCE continues, 8 new unknown fractal dimensions strip away from the already diverse informational structure of creation, indicated by the extended curvature of the grey line that continues to curl inwards and outwards according to the dictates of the Golden Ratio. This explosion of new FDs creates the first moment of the Big Bang. This also marks the point at which IS begins creating a continually vast and incomprehensible number of 'hidden' FDs that continue to divide and double in this very present moment with the unbounded freedom to never cease. We humans, as extremely complex internally ordered biological forms of embodied consciousness, can explicitly sense the first 7 material actualities of creation (PCE/L, W, H, G, SF, WF & EM) including of course the immaterial whole actuality of consciousness. However, all FD's created from this TW are 'implicit', as points of perceived differentiation, in how we humans experience the reality around and within us, as the

informational complexity that exists within these primordial dimensions / fields.

A radical aspect of this model is the notion that there's a near infinite, never-endingly collapsing dimensions that make up the created universe, which is a sharp turn away from the common understanding of the universe containing the three spatial dimensions plus a Time dimension. However, if we view creation as an extension of the infinite mind of an uncaused transcendent Creator who never stops unfolding an information-based Self-perception that reflects His infinitely detailed imagination, for the sake of simply celebrating His eternal presence, then a universe that exponentially climbs towards infinite dimensional development of continually increasing dimensional complexity begins to seem rather logical.

To try and comprehend the sheer awesomeness of the accelerating evolution of FDs that comprise this 'hidden order,' we need to understand that each time window appears as a single snapshot of experience, which is to say a TW lasts for an inconceivably brief period, perhaps more fleeting than a Planck second. For argument's sake, let us suppose that each TW indeed occurs, from start to finish, for as long as a Planck second. There are 10^{43} (that's a 10 with 43 zeros) Planck seconds in one second, which is more Planck seconds in one second than have been seconds since the Big Bang occurred 13.8 billion years ago. So, if a TW occurred for each Planck second, over the course of 13.8 billion years, following a basic pattern of exponential growth, then the number of FDs present in the current universe is mind-boggling. Although this number is a finite number, it is very hard to pin down as it keeps doubling with each discrete present moment. In other words, according to this model of consciousness, we have only scratched the surface in discovering the true dimensional vastness and beauty of creation that exists right in front of us and within us, as the first-person informational perceptions our God-given consciousness produces.

Similarity between the FOS model and other models.

The FOS model could be classified as a theistic (God-centered) form of panpsychism (material is an aspect of God's mind / consciousness) that features panentheistic (creation is 'within' God, therefore God is in every fraction of creation) elements and, thus, attempts to cross the divide between, not only neurology and philosophy, but more broadly between physics and theology / philosophy. However, the FOS model shares many of its axioms with other important cosmological models, although, due to the limited scope of this paper these comparisons will not be elaborated upon here. These discussions can be found in three different papers published by the author which feature the following models; The 'Monadology' model by Gottfried Wilhelm Leibniz (Breslauer, 2023), 'The Implicate Order' by David Bohm, 'The Universe

as a Cyclic Organized Information System' by John Wheeler, 'The Infinite Spiral Staircase Theory' by Chris Hardy, 'Advanced Reality' by Amrit Sorli, Davide Fiscaletti and Magi Mageshwaran, 'The Cellular Universe' by Seyed H. Anjamrooz, Douglas J McConnel and Hassan Azari (Breslauer, 2020) and the 'The Janus Cosmological Model' by Andrei Sakharov and Jean-Pierre Petit (Breslauer, 2020).

Conclusion

The Fractal of Self model clearly presents some radically new ways of connecting seemingly disparate scientific and philosophical concepts. The aim of this paper was to not only present some possible solutions to hard persistent mysteries in the realm of science but to frame the 'whole picture' of the cosmos under a theistic meta-framework of the universe essentially being the perception generated by the consciousness of a transcendent Creator, resulting in the crystallizing of His imagination into materiality. A strength this model presents is that it begins with simplicity in relation to the underlying cause and the initial developments of creation, which outlines the meta-boundaries to house a universe of infinite complexity and, therefore, the principle of Occam's razor is utilized to tackle the problems this model addresses. Although this model has offered possible solutions to longstanding existential questions, it has also unveiled many new questions, especially in relation to the 'hidden order' of infinite dimensional development that the FOS model suggests makes up the fabric of the cosmos. It is the author's hope that this paper has provided insights that can be useful towards our collective struggle in bridging the dissonance between theology and science. The ambitious scope of this model, along with its novel proposals, will hopefully have the chance to be challenged and critiqued by those involved in theological, philosophical and scientific fields this paper pertains to.

The third and final paper will focus on how the exponential development of Infinite Self's perceptual creation of dimensional complexity continued for 10 billion years resulting in the possibility to create embodied forms of pure consciousness (life) that can 'objectively experience' the world. Each embodied life form possess a mind directly connected to the mind of IS, each with the same silent underlying purpose; to provide IS with experiences of increasing resolution of His worldly creation. This third paper will also explain why and how life, as a whole unified 'being', follows the universal fractal pattern of continually generating, storing, organizing and utilizing memory that generates perceptual complexity intergenerationally, until forms of life evolve that reach unprecedented levels of self-consciousness and intelligence, becoming more and more aligned with the image of their Creator.

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