

THE  
INSTRUCTION  
MANUAL

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*As It Is Written  
In the Cosmos*

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STEVEN M. SCHULLY

The Instruction Manual.

As It Is Written  
In the Cosmos

by

Steven M. Scully

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# CHAPTER 1

## Natural Philosophy

### A. Introduction

In the same way, life is full of endings and yet has no ending.

In studying the nature of reality, it is important that we *think* about it. What we see around us cannot be understood without careful consideration using logic and reason through accounting for the whole picture. The philosophical consideration of nature is known as *natural philosophy*.

Without thought, we are blind; science becomes the practice of throwing darts in the dark.

With thought, it becomes a pivotal practice for deducing the true nature of reality through a step-by-step process.

This book is more than a study of physics, more than a study of thought, more than the sum of its parts. It is a testament to the importance of thinking without borders and becoming a lifelong student of reality.

### B. The Principles of Truth

Absolute Truth resonates like a body in the cosmos. It is always present, always interactive. As we *think*, we can move either *closer* to it or *further* from it.

In the universe, bodies can simply stay *too far apart to have substantial interaction*. If we never can get *close* to the truth, how will we ever *feel its pull*?

Other times, *even when* bodies get close to each other, their fields can interact in a way where they get pushed apart exactly as two like poles of a magnet. Indeed, there is only *one way* for a body to avoid being

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pushed away by another's field and instead to be pulled in: *through proximity and proper alignment*, as shown in Figure 1:

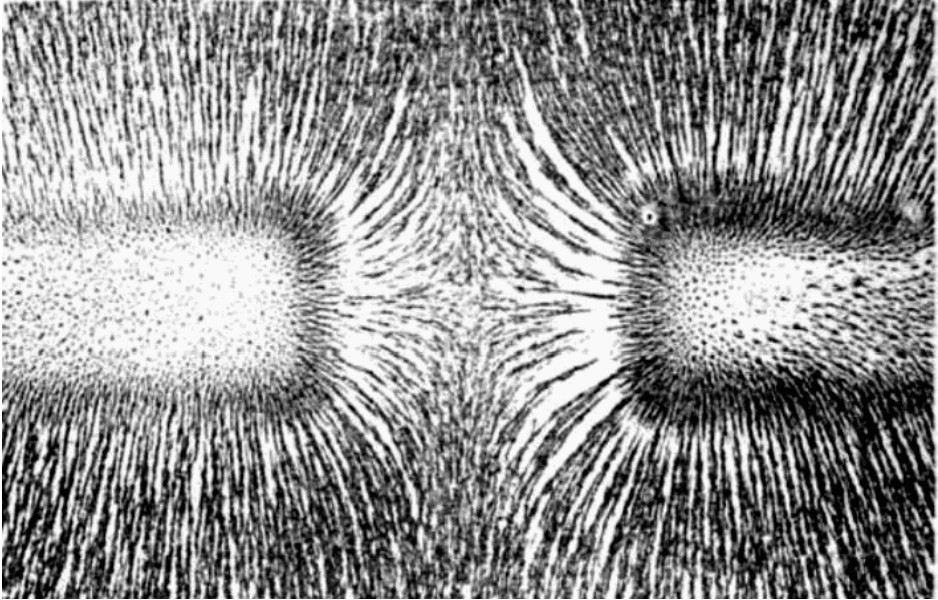


Figure 1a: Repulsive magnetic fields.

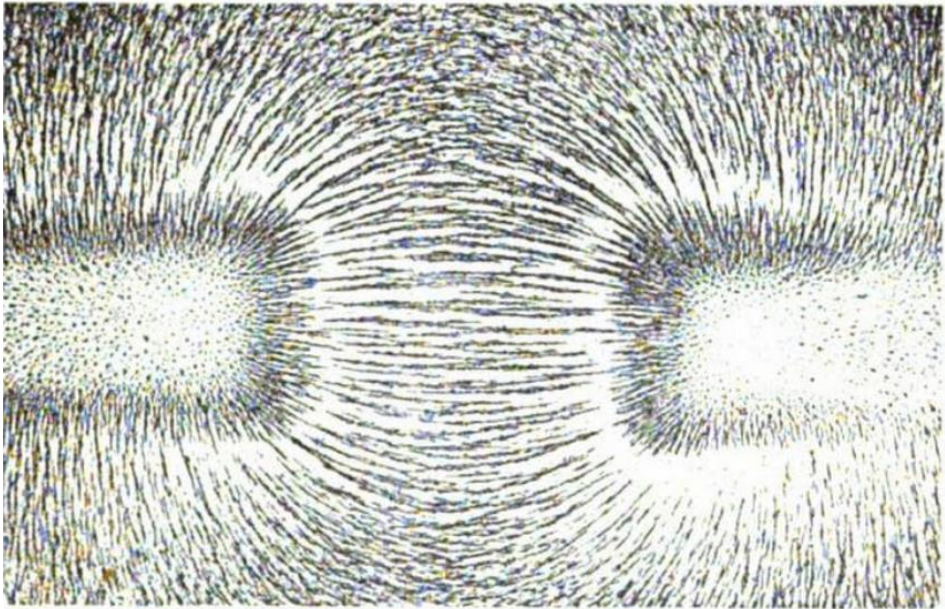


Figure 1b: Attractive magnetic fields.

There is but one Truth. It is *Unchangeable*. Its rays span across infinity, stretching into the most hidden corners of the cosmos and forever

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beyond, illuminating all that *is*.

It is in Truth's very nature to *push away* systems that resist because it consists of All That *Is*. It is *Unmovable*. If we try to change it, to tell Truth what it is, it will only push us further from it; but, it will not be moved. Only when we are *open to receive* can we not be pushed away, only when we are *in alignment* are we on the *path* to truth, and only when we get *close enough* will we *feel* Truth's pull. For *it is written in the cosmos*.

The path to truth is without limits, as Infinity knows none. It is not about reaching *the end*, but rather about reaching *the beginning*. And the beginning is in being in *proper alignment* by openly seeking the Truth and in *getting close enough* by seeing the Truth. Then and only then are we able to be *pulled into* the depths of What *Is*.

The universe's simplicity and elegance is infinitely more beautiful than any concoction of the human mind, as it is *literally* the *manifestation of Infinity*. It is awe-inspiring, breath-taking, inspirational, and able to bring any to their knees. What is seen cannot be unseen. Our path is long and the road rough, but like a system in the cosmos, the closer we get to a greater energy source *the more we will grow*. And when we grow, we find that what is *rough* becomes *smooth*.

Like two magnetic fields in the cosmos, this writing acts to put forth my stance. The question becomes: *Are you open to receive?* If so, forgive me for saying: Be mindful you do not resist before you get *close enough*. Take my hand for a moment; *I know the way*.

### C. Finding the Ground Level in Science

We are observers composed of atoms as our largest building blocks. We find ourselves in an environment of many such building blocks, some larger than atoms—*planets, stars, black holes*—and some smaller than atoms—*electrons, subatomic particles, photons, and beyond*.

In our search for scientific understanding of how the universe functions, it is imperative that we start from "*the ground level*." This is akin to building a house; we must start at the foundation and builds upward. We cannot build the top of the house and slowly fill in the space between down to the foundation.

So the question becomes: *Where is the ground level?*

On the surface, it is possible to quickly conclude that the ground level is *small*. It is this *smallness* that builds into larger things, into larger still, to create all that we see, after all.

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However, the flaw in this technique is non-trivial. This process begins with that which is understood *least* to attempt to explain that which is understood *most*. The reason quantum mechanics does not explain that which we see *with our eyes* is because it is *not* a ground-up approach, but rather a *top-down* approach. Just because the systems are *smaller* does not mean they are *simpler*.

Alternatively, several attempts to explain reality based off of the opposite end of the spectrum—the large-scale—have been made. In these instances, we have arrived at models such as the “Big Bang” and General Relativity. In much the same way, the models begin with a *top-down* approach of that which is *furthest* from what is most directly observable and observed.

The true ground-level of understanding is neither the small nor the large systems we observe. Rather, it is *what we see with our own eyes*. *We* are the ground-level. To understand the fundamental interactions of the small is a non-trivial task, and it does not *begin* by looking at the small, just as understanding the fundamental interactions of the large does not *begin* by looking at the large. In both instances, it *begins* by studying that which is most easily observable *with our own senses*.

This is not just because it is nearest to us and nothing more. Rather, this is because it is the *least approximated* of all pictures. When we look at the Earth, we see it in endless detail. We see the rivers and oceans, the layers of the crust, the atmosphere, and how all its constituents interact. We see the *most* amount of *detail* when we look at systems that are directly observed around us. As a result, they are the *least* approximated.

In classical mechanics, these observations of what is directly observable are the *foundation of reasoning* that were used to develop the laws put forth by Isaac Newton. These are built on *direct observations* that are as *far from* being approximations as possible.

Inversely, for example, in quantum mechanics the observations are of what is most *indirectly observable*; we cannot *look* at the systems directly, we cannot freeze them in time or hold them in isolation and zoom indefinitely onto them to analyze how they are in a given moment. All we can do is see how they seem to interact *as groups of systems*; no longer are individual systems generally even analyzable in quantum mechanics because it requires many systems in unison producing an indirect observation of how they interact. The interpretations do not *take into account* what we see with our eyes *directly before us*. In order for an

individual to accept the description of nature put forth by quantum mechanics, they *must* accept the *hypothesis* that smaller systems are more “*elementary*” than larger systems. Infinity, however, knows no limits.

Much the same can be said of the “Big Bang” model, which also uses the other end of the *spectrum* of what we can detect as a top-down approach. Rather than focusing on that which is furthest from our direct observance in the direction of *smaller* objects, the “Big Bang’s” origin is from a focus on that which is furthest from our direct observation in the large-scale.

The same mistakes are made, and this can be explained through the models not building from what is *most known*. It is not possible to suddenly have an epiphany and realize the mathematics of differential calculus without first knowing arithmetic. With that in mind, the most important aspect of arithmetic is *order of operations*. If we have a simple calculation involving groupings of numbers that are added, subtracted, multiplied, and divided, the only way for a proper answer to be arrived at is through following the *order of operations*. All other answers will be, simply put, *incorrect*.

Present models do not adhere to the principles of order of operations in deducing the nature of reality. Therefore, they arrive at answers that are ultimately *incorrect*. Rather than explaining the functionality of the universe as a whole, they serve as approximations capable of only describing the small portion of Infinity to which they are designed. Further from their designs, they do not function to provide accurate descriptions. This is far more significant than a simple need of adjustment. A paradigm shift in the way that we view the nature of reality is necessary.

In uncovering the secrets of the cosmos, the *order of operations* is paramount. The order starts *first* with studying that which is directly in front of our faces, observable to the most *exactness* of details of all observations we can make. This is the foundation of developing understanding outward, of building our house of knowledge with a ground-up approach. Once we have enough understanding of that which is around us, we can slowly start to branch *outward*, towards the small and towards the large, to get a greater understanding of those systems based on what is already understood with most exactness and the highest level of *detail*.

Logic and reason are not things to be tossed aside in favor of force-fitting equations. Equations, in their very nature, are *approximations*. No

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equation containing a string of variables can ever be concocted that encompasses the interactions of all particles in the infinite universe, as all such equations inherently limit.

The true equation of the universe does not need written on a piece of paper or in a textbook; *it is written in the universe itself, where infinity is manifest.*

From a ground-up approach, the universe can be understood. All other approaches, starting by the study of systems of which we form the greatest approximations, are houses of cards. They may stand for a while, but the winds of change will topple them with ease. Truth, and only truth, will stand in the end.

#### **D. When Newton's Laws Were Held in Esteem**

Throughout the history of science, there are several instances where an entire concept has been completely dismissed in favor of a “new” way of interpreting observations. This is alike to throwing something of value in the trash, where it then becomes buried and hidden from view.

In today's world, classical mechanics is a stepping stone, a simplified version that is not perceived as a fundamental *description* of the reality we live in. If something disagrees with Newton's Laws, it is not thought to be because of a lack of full understanding, but rather it is concluded to be because Newton's Laws were wrong.

As a result, quantum mechanics, general relativity, and the Big Bang models have become “standard models” to describe the universe. In this, classical mechanics has fallen largely into the pages of the history books. Nowhere to be seen are the scientists who are searching for the connections between new observations of the cosmos and Newton's Laws.

The Big Bang model is a perfect example of this. Prior to the discovery that the light spectrums from all galaxies in all directions were redshifted when the galaxies were beyond a certain distance away from Earth<sup>1,2</sup>, the concept of the “*Steady-State Universe*” was the prevailing perspective of the cosmos. This is a model where the universe was thought of as eternal and generally unchanging.

Redshift occurs when the absorption line patterns, caused by the specific particles absorbing light from the source galaxy, are *shifted* towards lower energy positions so that the same pattern exists, but *shifted* as shown in Figure 2:

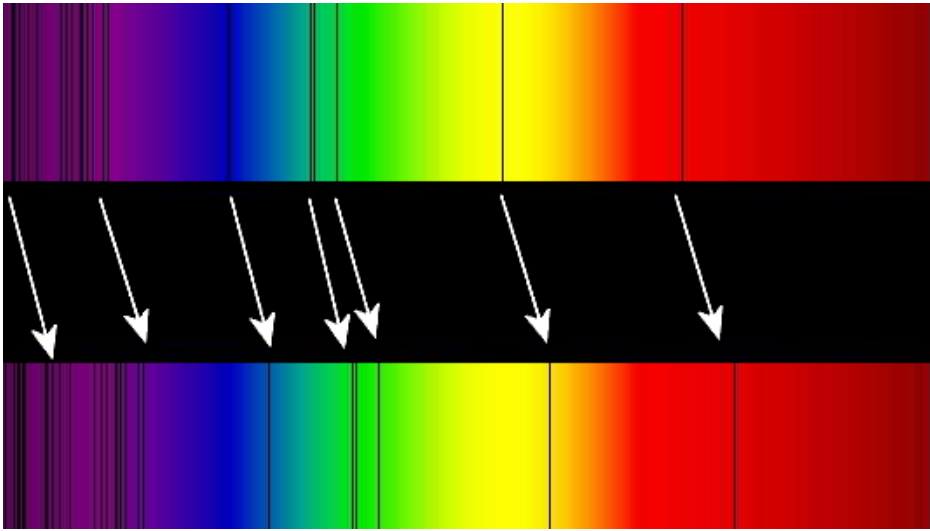


Figure 2: Example of the redshifting of light.

Due to one group of related observations alone, centuries of compounding thought and research were entirely dismissed in favor of the Big Bang model; in favor of a model whose foundation was built upon *interpretation* of this single *group* of correlated observations. The model hinges entirely on the interpretation that this shift in the light spectrum is caused by motion, where redshift in particular is caused by motion away<sup>2</sup>. It further elaborates on this motion—*so as to not break the laws the physics*—by adding so-called “*expansion of space*”<sup>3</sup> and “*dark energy*.”<sup>4</sup>

These new additions to the fundamentals are sufficient to demonstrate the model does not follow logic and reason, as Occam’s Razor—which states the simpler answer is more likely to be true—argues the addition of *more* complexity into the claimed fundamentals of how the universe functions is illogical. Moreover, when we make the observations, there is no way to determine the *actual* cause of redshift; *we just see redshift*. We do *not* see motion. The Big Bang model does not mention that this redshift *could* be caused by another known means: *gravity*. However, rather than seeking an answer in gravity, science jumped to the conclusion that motion *of some form* was the cause and, as a result, that the “Big Bang” happened. In one fell swoop, physics was warped into a skewed reality.

Importantly, this all occurred because those analyzing the observations at the time they were made could not deduce a specific means by which gravity could cause what was seen. What could be

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deduced, though, was an apparent explanation using motion instead as the cause. And so logic and reason of natural philosophy were abandoned offhandedly as the first explanation to arrive was taken as factual even in spite of its shortcomings.

It was not always this way. As Richard Feynman discussed in *The Character of Physical Law*<sup>5</sup>, anomalies that did not match the predictions made by Newton's Laws were critically analyzed for what *we* could be missing that would make Newton's Laws recognizably produce the observations. In the case of the moons of Jupiter, it appeared that the predictions were distinctly not in line with the observations.

Rather than developing an entirely new way of looking at the universe, those considering this anomaly held Newton's Laws in esteem and set about trying to recognize what critical missing link was unknown that was not enabling predictions to match the observations.

As Richard Feynman states:

*"...Mr. Rømer, having confidence in the law of gravitation came to an interesting conclusion; that it takes light some time to travel from the moons (of Jupiter) to the Earth, and that what we're looking at when we see the moons are not how they are now but how they were the time ago that it took the light to get here. ...And by the fact that they were this much too early or that much too late, was able to determine the velocity of light. This was the first demonstration that light was not an instantaneously propagating material.*

*"I bring this particular matter to your attention because it illustrates something: that when a law is right it can be used to find another one. That by having confidence in this law, if something is the matter, it suggests perhaps some other phenomenon. And if we had not known the law of gravitation, we would have taken much longer to find the speed of light because we would not have known what to expect of Jupiter's satellites. This process has developed into an avalanche of discoveries, each new discovery permits the tools for much more discovery, and this is the beginning of that avalanche which has gone on for four hundred years in a continuous process and we're still avalanching along at high speed at this time."*

Nowadays, this confidence in Newton's Laws is nonexistent in the search for further understanding of the universe. This is evidenced by the *lack of any* theoretical or experiment research at the academic level into



how Newton's Laws apply to newly made observations. General relativity, quantum mechanics, and the "Big Bang" are the only fields of research considered of any value. This does not mean that any are actual descriptions of *reality*, however.

Rather than holding confidence in Newton's Laws, which are based firmly in *natural philosophy*, we have stepped away from philosophy and began a rigorous process of attempting to explain observations through complex mathematical equations that have nothing to do with classical mechanics.

This method does not appreciate the value of Newton's Laws, which are *philosophical in nature*, as was prominent in the past.

In much the same way as how the speed of light was recognized to not be instantaneous by holding confidence in the law of gravity, this book will show that the same can be said of the other "fundamental forces"—"*causeless*" *forces behind everything we see*—as well as the rest of nature by holding confidence in the laws of classical mechanics. Not because of what they are, but because they are based in *thoughtful consideration* and function as a *doorway to understanding*.

When logic and careful thought is replaced by jumping to conclusions and disregard for the *universality* of fundamentals, *anything* can be claimed to explain the universe. But only when logic is held as a *hinge*, and thereby classical mechanics as a *beacon*, can we follow through to deduce the fundamentals of reality as they truly *are*.

## **E. The Sharpened Point of Scientific Progress**

Throughout the history of scientific progress, universal laws have become more apparent. What was broad, non-descript, and localized opinion has changed over time to be specific, elaborate, and global consensus.

This process functions like the *sharpening* of a point of an object such as a pencil. The *tip* of the point is akin to the most *foundational bases* of a scientific hypothesis. The layers beyond the tip branch off wider and wider, carrying more and more *substance*. At first, the tip was like an *unsharpened* pencil; all things interpreted to have their own causes. Over time, as observations were seen to have more fundamental *shared root causes*, the tip was sharpened to be explained by fewer and fewer underlying mechanics.

Not only has the sharpness increased, but the evidence behind it has increased both in volume and in detail. This increase in detail acts to

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give actual *density* to the material upon which the sharpened point is built and the increase in volume functions as a growth of the different components of which the material is composed, alike to making the pencil larger and stronger. For example, adding math increased the volume and adding more *detailed* math increased the *density* of the material the sharpened point is built upon.

*The sharpest point with the most weight and density behind it will shatter all paradigms.*

When we look at current scientific models, the sharpness of the point would be akin to the model's *base* requirements. The weight being the evidence behind it and its density being the thoroughness of the evidence. If a model does not incorporate known observations, however, it contains *holes* that result in *weaknesses* in the overall system. If it does not have a sharpened point, it is *dull* and unable to penetrate these openings in other models. Like an aluminum arrow shot against a stainless steel beam, dull, low weight and low density scientific interpretations crumble when they encounter a more grounded, sharpened, all-encompassing and detailed description of the nature of reality.

In the case of current standard models, the sharpness appears high, but is comparatively low. For example, the Big Bang model requires the existence of four fundamental forces of nature, expansion of space, and dark energy, to say the least. Quantum mechanics claims the existence of several fundamental particles, four fundamental forces, and expansion of space and dark energy persist. General relativity, much the same, requires largely these same elements. The number of foundational elements required in a model can be considered its *sharpness factor*.

When there are countless objects in the cosmos, the reduction of the cause of them all to such a small list of elements acts as a sharpening of the point. However, these remain dull next to a point containing only one element. The points are not *as sharp as they can be*.

Similarly, each model has many observations behind them in several specific areas that assist in developing the weight and density of the material. In the case of quantum mechanics, for example, it has the double-slit experiment as a major component and its many, *many* particular experiments as a large degree of density. Each model, however, has its limits. It knows of outside observations but they are unable to be incorporated into the model. As a result, they are heavy and dense. But not *as heavy and dense as they can be*.

As physics focuses further and further on root causes of universal observations, these factors are the most significant primary consideration in the validity of a model.

If the *sharpness* of the model does not increase, then the model is *definitively* invalid.

If the *weight* of the model does not increase, then the model is *definitively* invalid.

If the *density* of the model does not increase, then the model is *definitively* invalid.

An example of this is the theorized *fifth fundamental force*. Other current models list *four*, and so *already* they are *more* specific. Therefore, *a fifth fundamental force is invalid*.

Not to say that *four* is any better than *five*. Purely from a *sharpness factor* perspective, the sharpest possible tip is with *one single element*, as when there are zero elements it is no longer part of the object.

In other words, the final step in the sharpening of our scientific proverbial pencil is to demonstrate how *one single root cause produces all things*. This would have a sharpness factor of one while having the weight and density of all observations behind it. In such an instance, the model would be a description of Truth.

## **F. The Limitations of Technology**

With the human eye, we can perceive a vast array of the cosmos. From minute detail of the world around us all the way up through stars and even the dusty appearance of distant galaxies, we can see much of our surroundings. However, there *are* limitations to what we can see.

To expand how far we can see, we do this by looking beyond our *limits of perception* in *both* directions: big *and* small. For the big this is done with, for example, telescopes. And for the small this is done with, for example, microscopes.

This increases our ability to see into the depths of the microcosm and macrocosm drastically. We make the mistake, then, of thinking that the improvement in what we *can* see is so vast that we see to the very limits of reality. In truth, we see to the very limits *of our instruments*. No different than the limitations of the human eye, technology has this same *intrinsic inability* to see *beyond*.

For us, these limits are within the *depths of infinity*. No matter how deep we manage to peer into infinity, there will always be a limit to how far we can see beyond which there is infinitely more, regardless of

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the lens through which we perceive it. The universe is the *manifestation of infinity* and no instrumentation can ever pierce its depths.

## G. What Classical Mechanics was Missing

In Sir Isaac Newton's *Principia*<sup>6</sup>, he outlined laws that the universe functions under known as the *laws of motion* and the *law of gravity*.

### Laws of motion:

1. The first law of motion: an object either remains at rest or continues to move at a constant velocity unless acted upon by an outside force.
2. The second law of motion: Force is equal to mass times acceleration.
3. The third law of motion: When one body exerts force on a second body, the second body simultaneously exerts a force equal in magnitude but opposite in direction on the first body.

### Law of gravity:

A body attracts every other body in the universe using a force that is directly proportional to the product of their masses and inversely proportional to the square of the distance between their centers.

With all the observations we have today, these laws are applicable to each and every one. What the model is missing, however, is two things regarding how and where they apply:

1. The universe is infinite; there is no end to *how large* and *how small* masses in the universe can be.
2. Sufficiently small particles can travel through sufficiently large particles.

From this, the fundamentals of physics of the universe *as a whole* can be fully understood.

For example, any given particle can be divided into smaller particles. Like the atoms of the Earth, the Earth is divisible into smaller particles; so, too, are *all* particles divisible in this way. The atoms themselves are divisible into smaller particles in the *same* way, which are divisible further, *ad infinitum*.

Just the same, all particles are combined into *larger* particles. All that we see in the observable universe is but a small portion of a larger particle. This is why small particles can travel through large particles: because every particle is made up of smaller and smaller particles.

This analysis leads to *The Universal Principle of Natural Philosophy*, which is discussed herein. This title is given to the theory because it uses the laws described by Isaac Newton in *The Mathematical*

*Principles of Natural Philosophy* to deduce the singular fundamental universal *principle*—where “*principle*” is defined as “*a fundamental, primary, or general law or truth from which others are derived*”<sup>7</sup>—which serves as the basis for interpreting truth. Moreover, the title highlights the importance of *natural philosophy* in the process, which is a necessary component for logical deduction of how the universe functions. The term *universal* is in reference to the *universality* of the fundamental principle where the theory arrives.

Importantly, though it is a *theory* in appearance, this does not preclude it from being actual description of the underlying mechanics of the universe. There is a critical difference between a *theory* and a *principle*. A theory is one which, in its nature, is not proven. In this case, the most accurate label to ascribe to the theory presented herein is not “*theory*,” but rather *the universal principle*. This is because, regardless of outside perception of it as “*just*” a theory, it is built upon *all* evidence, as will be elaborated upon herein, having *infinite* weight and density behind it, and it is sharpened to the finest of points. For, it shows that *from one, all arises*.

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## CHAPTER 2

# The Universal Principle of Natural Philosophy

### A. How Gravity Causes Electromagnetic Fields

Electromagnetic fields are considered to be caused by charged particles as a result of the fundamental force of electromagnetism<sup>8</sup>. For example, the Earth's electromagnetic field is thought to be produced by the flow of charged particles inside of the Earth. However, due to the capacity of particles to physically travel through systems which they orbit, the existence of gravitational orbital patterns in the shape of a Figure-8 is recognized. As a result, the mechanism by which gravity causes electromagnetic fields is deducible.

Standard models of physics describe the universe to have four fundamental forces of nature: gravity, electromagnetism, weak interaction, and strong interaction.

This is inconsistent with the simplest possible description of the mechanics of the universe, which would have the fewest causes possible. Indeed, the *sharpness factor*, with so many forces, is dull. In order to address this issue, it is necessary to find the causes of the fundamental forces of nature and thereby arrive at a simpler model that more accurately describes our universe.

This is achieved through a first step of connecting gravity and electromagnetism using classical mechanics. In order to do this, the previously unrecognized characteristics of the universe discussed above need to be incorporated into considerations:

1. The universe is infinite.

This consideration allows us to envisage an infinite array of particle types of different masses, from "*infinitesimal*" through "*infinite*" in mass, relative to the mass of the atoms which we use to observe our surroundings.

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2. Particles are capable of physically traveling through other particles.

As is demonstrable in the case of neutrinos passing through the Earth<sup>9</sup>, the capacity of particles in the cosmos to pass unabated through other particles is an important characteristic regarding how the universe functions which requires necessary consideration in developing a working understanding of how electromagnetic fields are produced.

With the above considerations, it is possible to arrive at a description for how gravity causes electromagnetic fields.

In *Principia*, Newton described the laws of motion and the laws of gravity. Today, these laws are common knowledge and are the foundation of classical mechanics.

However, because Isaac Newton was unaware of the capacity of particles to physically travel through other particles, he did not incorporate this characteristic into his model. Thus, he was unable to propose a mechanism through which electromagnetic fields were caused by gravity. In addition, it is important to recognize that if the universe is *infinite*, then this means that particles within it do not just get infinitely *large*, but also can be infinitely *small*. An entire array of ever smaller particles exist, where the largest particles of those smaller than ourselves would be what we see as the *nuclei of atoms*.

In order to recognize the mechanism by which gravity causes electromagnetic fields, we can envision a first particle having a very small mass,  $m_1$ , and a second particle having a relatively very large mass,  $m_2$ , where  $m_2 \gg m_1$ . Comparatively, the particles can be considered “*infinitesimal*” and “*infinite*,” respectively.

If these particles are very far apart, other forces on the small particle  $m_1$  would keep it from being *pulled towards*  $m_2$ . However, *if they are sufficiently close*, then the force of gravity of the very large particle  $m_2$  on  $m_1$  would be high enough to pull the very small first particle  $m_1$  towards it, due to the inverse radius-squared function of gravity:

$$F = G \frac{m_1 m_2}{r^2}$$

A unique outcome is achieved if the conditions are such that the first particle is close enough to the relatively large second particle so that it is pulled directly towards it *and* it is capable of traveling through the building block components of the second particle unimpeded.

In such a case, as shown in Figure 3 below, the first particle is led to travel directly towards the center of gravity of the second particle. However, due to the large relative mass difference between the two systems, the very small first particle is able to then physically travel *through* the body of the second particle.

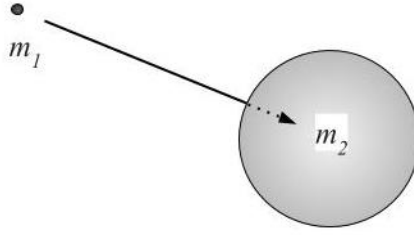


Figure 3: Simple diagram depicting the direction of travel of  $m_1$  due to the gravity of  $m_2$ . The dotted line portion indicates that  $m_1$  continues to travel physically through  $m_2$ .

As a result, the direction of the force of gravity upon the first particle as acted upon by the second particle is then *reversed*, due to the first particle physically traveling past the center of gravity as its momentum carries it through the center of the body of the second particle. In turn, the first particle is caused to be *redirected back* towards the center of gravity, as shown in Figure 4:

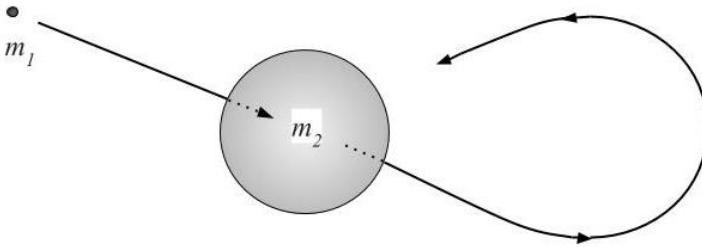


Figure 4: Simple diagram depicting the change in the direction of travel of  $m_1$  after it passes through the center of gravity of  $m_2$  so that it subsequently travels back towards the center of gravity of  $m_2$ .

If we pause here, the circumstances of the traveling first small particle are the same, but opposite, to as it was initially. In the same way, after the first particle is redirected back towards the center of gravity of the second particle, it will physically travel through the body of the second particle and the direction of the force of gravity upon the first particle is again reversed. Repetitively, this traveling through the center of gravity of the second particle by the first particle and the reversal in the direction of the force of gravity upon the first particle occurs. This results in a *Figure-8 orbital* as is shown in Figure 5 below.

For a given system, such as Earth, this Figure-8 orbital is produced for all particles meeting the parameters necessary for them to physically pass through the body of the Earth and to be redirected back towards the center of gravity of the Earth afterwards. The *summation* of the flow of



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*all particles* around a given particle traveling in this manner produces what is known as an *electromagnetic field*, as shown in Figure 6:

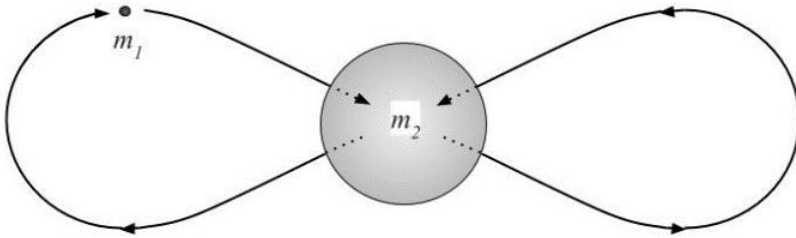


Figure 5: Simple diagram depicting the full Figure-8 orbital of  $m_1$  due to repetitively physically passing through the body and center of gravity of  $m_2$ .

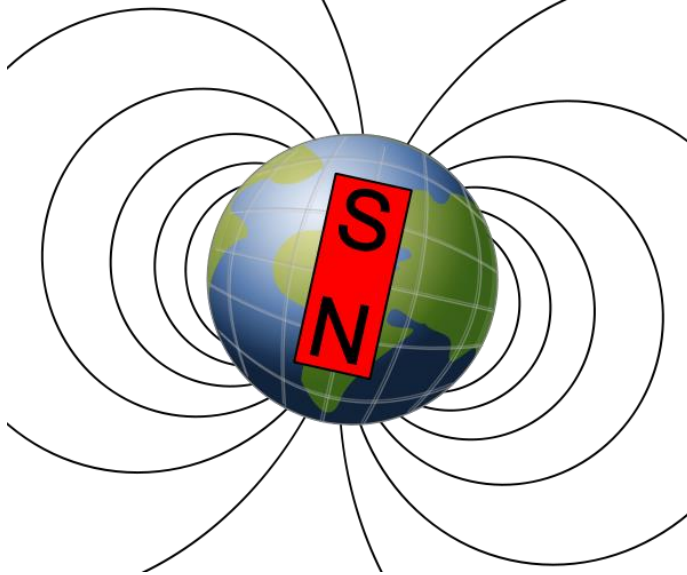


Figure 6: Diagram of electromagnetic field of Earth.

As this relates to a single *particle's* electromagnetic field, it is the most basic form. More complex forms, such as in the structure of magnets, come about from many particles acting as a single system but not enough particles for their cumulative form to be particulate in nature, for example as all the atoms of Earth become particulate in nature as a whole. This shows a case where the "*simpler*" system is the *larger* system, between magnets on Earth and the Earth itself. This is an example of why the assumption that smaller inherently means *simpler*, or more "*elementary*," is invalid.

There are other considerations that come into play regarding the

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strength and detectability of the electromagnetic field of a particle. The first major influence is the *spin* of the particle. Whether or not the particle is spinning relative to its environment, and to what degree, plays a central role in the production of electromagnetic fields.

In the instance where the particle is not spinning rapidly, such as in the case of Venus' slow rotation, it is possible for particles to pass through the center of gravity but *not* be redirected back towards the non-spinning particle. For Venus, its magnetic field is so weak that it is only detectable through observance of "near-Venus wake symptomatic of magnetic reconnection<sup>10</sup>." In other words, we cannot directly detect it, but can know of its existence through observing phenomena associated with magnetic fields.

This is because when a particle is rotating, it generates a bulge at its equator by its centrifugal force, inclusive of the disc of mass perpendicular to the axis of rotation of the particle, which leads to a gravitational *imbalance* in the direction of the plane of the bulge and disc material so as to produce the necessary *curvature* in the flow of the particles passing through the center of gravity.

Venus is known to be the most spherical body in the solar system<sup>11</sup> and thereby its electromagnetic field is not detectable. It is the curvature in the path of travel of particles that pass through the center of gravity that enables them to be redirected back towards the center of gravity of the rotating particle.

If there is a perfect balance, so that the direction of the force of gravity upon the smaller particles after passing through the center of gravity of the larger particle is exactly opposite to its direction of travel, then it can continue to travel sufficiently away from the larger particle so as to reach a distance where it is no longer greatly influenced by the gravity of the larger particle, as shown in Figure 7:

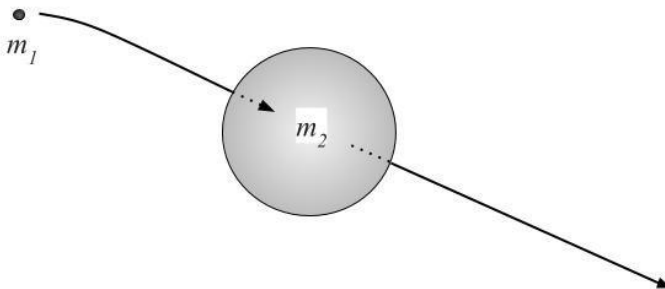


Figure 7: Simple diagram depicting the path of travel of a smaller particle,  $m_1$ , when it is capable of physically traveling through the center of gravity of a larger second particle  $m_2$ , and when the direction of the force of gravity thereafter is directly opposite to the path of travel so as to maintain a linear trajectory away and not produce the outcome of a Figure-8 orbital.

Greater rotation rates lead to greater bulges and disc structures due to the rotation. This, in turn, leads to more drastic imbalances in the direction of gravity acting upon the particles passing through the center of gravity in the direction of the bulge, and thereby when a system is in rotation relative to its environment it is capable of producing electromagnetic fields whose observed strength is a function of its mass as well as the degree to which the mass is “*pancaked*” by the rotation versus spherical due to non-rotation, as depicted in Figure 8:

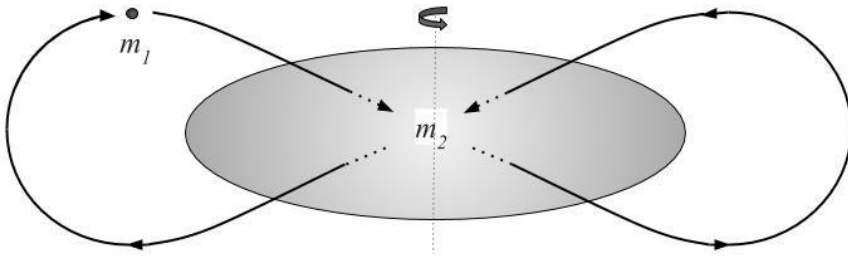


Figure 8: Simple diagram showing an exaggerated “*pancaking*” of particle  $m_2$  due to its rotation about its axis and the resultant Figure-8 orbital of particle  $m_1$  arising from the gravitational imbalance of the rotating system.

Thereby, systems which rotate rapidly have more apparent and observably strong electromagnetic fields than those which rotate more slowly and have the same mass. As a result, non-rotating systems of nearly identical mass as a rotating system can generate very weak electromagnetic fields, whereas the rotating system is capable of generating an observable electromagnetic field. Such is the case for the very similar mass systems of Venus and Earth.

Another important consideration in the outcome of the observed strength of the electromagnetic field of a particle, just like the sharpened pencil, is not just its mass but also its *density*. Due to the inverse-radius squared function of gravity, higher density systems also produce relatively stronger electromagnetic fields than lower density systems of the same overall mass.

This is because when a given particle’s mass is distributed widely in a large volume, the distance of separation of the bulk of the mass on particles orbiting in a Figure-8 orbital is larger than when the same mass of the system producing the electromagnetic field is packed into a smaller volume. As a result, low density systems are less able to influence the trajectory of an orbiting particle than higher density systems of the same mass. The cumulative force of gravity of all the constituent particles of the densely packed mass “*spikes*” more when the orbiting particle is near the center of gravity than in the case of a lower density system. This leads to a densely packed system more drastically influencing the trajectory of

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the orbiting particles than a low density system and having a stronger electromagnetic field as a result.

Thereby, in the case of systems such as neutron stars<sup>12</sup>, higher density systems produce observably stronger electromagnetic fields than lower density systems of the same mass.

Therefore, gravity *causes* electromagnetic fields. This is particularly apparent because it so drastically reduces the fundamental mechanics of the universe, as we are not presently aware that electromagnetic fields are connected directly to gravity, that it necessitates that it is the case. Moreover, this non-trivial simplification of the fundamentals of physics—by connecting two fundamental forces and beginning to show how one *produces* the other—greatly supports the hypothesis that the universe is factually infinite. As a result, it strongly supports that there is no such thing as an elementary particle.

Indeed, James Clerk Maxwell, in *A Treatise on Electricity and Magnetism*<sup>13</sup>, states:

*“In several parts of this treatise an attempt has been made to explain electromagnetic phenomena by means of mechanical action transmitted from one body to another by means of a medium occupying the space between them. The undulatory theory of light also assumes the existence of a medium. We have now to shew that the properties of the electromagnetic medium are identical with those of the luminiferous medium.*

*“To fill all space with a new medium whenever any new phenomenon is to be explained is by no means philosophical, but if the study of two different branches of science has independently suggested the idea of a medium, and if the properties which must be attributed to the medium in order to account for electromagnetic phenomena are of the same kind as those which we attribute to the luminiferous medium in order to account for the phenomena of light, the evidence for the physical existence of the medium will be considerably strengthened.”*

Gravity is herein shown to pull this medium of “infinitesimal” particles physically *through* a given body so as to cause it to flow in a Figure-8 orbital. This, then, is how gravity causes electromagnetic fields.

## **B. The Big Bang’s Big Assumption**

The Big Bang model says that all distant galaxies are moving away from us. This, it is said, is due to *expansion of space*. Additionally, *dark energy* is said to cause this expansion of space to *accelerate*.

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Everything that the Big Bang claims stands on the shoulders of this interpreted motion of distant galaxies away from us. It means that if we reverse time, then we can envisage the galaxies coming back together closer and closer until they are all part of one single particle, or source, or nothing, from which the universe had a “big bang” into existence. Moreover, it suggests that the age of the universe is *finite*, typically cited at around 13.8 billion years. It leads us to interpret several other observations in light of this model, such as the *Cosmic Microwave Background*, and attribute additional “Big Bang” characteristics to observations outside of redshift.

What it does *not* mention, however, is that this is based on an *assumption*. Specifically, the assumption that motion is the cause of the observation behind these concepts *to begin with*.

When we observe distant galaxies, we do not *see* motion away; rather, we analyze the light spectrum of these galaxies to determine what their composition is. When we do this, we see absorption lines that tell us what the galaxy is made of. These absorption lines are at very specific frequencies locally on Earth. However, distant galaxies have their absorption line patterns *shifted* to lower energy in what is known as a “*redshift*”, as shown in Figure 2 previously.

This *shift* of absorption line patterns is what we actually *see*. Redshift *can* occur by motion away from an observer in what is known as Doppler shift. However, it can *also* be caused by gravity in what is known as *gravitational redshift*.

Thus, the *big assumption* is that motion *is* the cause and gravity is *not*.

This led to the conclusion that all distant galaxies are moving away from us, therefore they were once all together, therefore there was a “Big Bang.” It is important to note the *history*, or the *evolution*, of the theory. In its original form, Doppler shift in and of itself was sufficient to explain the observations. The concept that space was *expanding* was not introduced until there was a distinct need for it: high redshift values. These redshift values were at times seen so high that they would *imply* faster than light travel of the galaxy away from Earth. It was also seen that there was a relationship between how high the redshift of a galaxy was and how far away it was, which gave a means to insert *expansion* into the model.

To “*correct*” for the apparent breaking of the laws of physics, this correlation of *redshift per distance*, recognized by Georges Lemaître and Edwin Hubble—which came to be known as “*Hubble’s Law*” as shown in Figure 9—was extracted from redshift observations. This linear statistical distribution of redshift per distance was then labeled “*cosmological*”

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*redshift*,” differentiating it from conventional redshifts, and attributed to a completely new phenomenon: *expansion of space*.

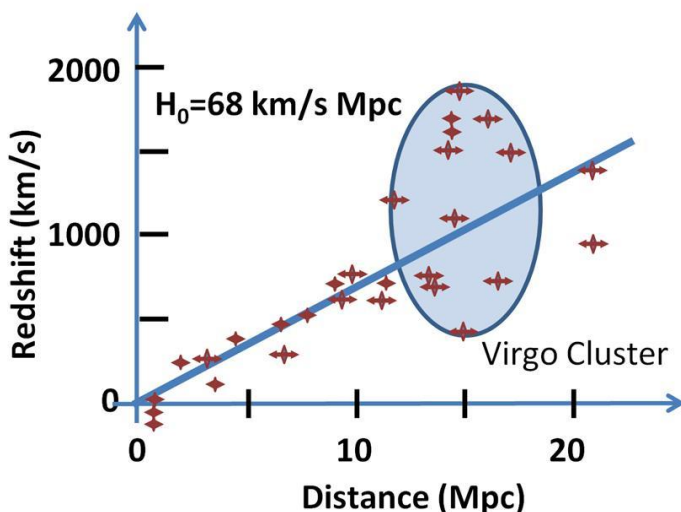


Figure 9: Example of correlation of redshift per distance. Notably, as is standard in redshift graphical depictions throughout even academia, the y-axis specifically is labeled with the *interpreted* motion. The blue line represents Hubble’s Law.

It is important to take careful note that the observation, which is the *degree of redshifting* in the absorption line patterns from distant galaxies, is so commonly translated as *velocity* or *recessional velocity* that it is typical and standard procedure within academia to represent redshift in the above manner, as velocity in *km/s*. This means that the observation, upon being graphed, carries with it the assumption that motion is the specific cause of the redshift values observed. Interpretation has worked its way into science in this way in many places, and this is an exemplary case of the common practice of *translating* data rather than *reporting* the data.

As redshift can also be caused by gravity, which will be elaborated on in a moment, it is an *assumption* to claim the redshift to be based on *recessional velocity*. Let us look at another example to understand the significance of this assumption.

Imagine that you and I are in a room together, both having access to the same cookies. Someone is consistently monitoring the number of cookies eaten, and they notice that, over time, more and more cookies are consumed. They see you and think, “*ah-ha!*”, *you* are the cookie consumer. Meanwhile, you had not even noticed the cookies and I was the one eating the cookies. Then, many people begin to do studies of the amount of cookies you consume across time, coming up with graphs that depict *time* on the x-axis and *your cookie consumption* on the y-axis.

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In reality, the studies have mistakenly labeled *general cookie consumption* as specifically *your* cookie consumption simply because they know that you *can* consume cookies.

The same is the case with redshift, where what is seen is *general redshift*, but it has been labeled as specifically redshift due to *motion*. In this way, the data has been taken further than it actually indicates and assumptions have found their way into the actual graphical and textual representation of the data.

As a result of the assumption that motion causes redshift, and the subsequent interpretation of *cosmological redshift* as the result of “expansion of space,” the Big Bang model does not pass the *sharpness factor* test. This is because it is more *dull*, requiring the additional element of expansion of space. This means that at the point of the sharpened proverbial pencil of the Big Bang, there are *more* components than previous models. Therefore, it is illogical from this alone.

However, it did not stop there. More recently, due to increases in the capacity of our telescopes to see further into space, it came to be recognized that the *rate* of redshift per distance was not linear as was implied by Hubble’s Law. Instead, the *rate* of redshift per distance detectably *accelerates* at larger distances. In terms of the Big Bang, this implied that the *rate* of “expansion of space” was accelerating. To explain this, an inexplicable force was introduced: “*dark energy*.”

This is why labeling this correlation as Hubble’s *Law* is a drastic overstep in what it truly represents. It is a correlation that exists over a certain range that can be approximated as linear within that range, but over larger distances the linear correlation is broken as it becomes apparent to be an exponentially increasing correlation. In short, it is not *actually* linear. Mistakenly, it was proposed that the linear correlation was somehow *universal*, and that led to the interpretation that any deviations therefrom had *separate causes*. This is not how universal laws function. A law would describe *both* the rate of redshift per distance *and* the *accelerating* rate of redshift per distance *and* apply universally. This is what it means to *be* a Law. “Hubble’s Law” is a distance-dependent correlation.

The labeling of this correlation as a “Law” has played a non-trivial role in translating its cause as “expansion of space.” Without the “Law”, and only with a correlation, then the universality of “expansion of space” would be drawn into question because the observations to which it was ascribed would be recognizably not universal. Regardless of what it is labeled as, the correlation is not universal due to the accelerating rate of redshift per distance seen at sufficient distances from Earth. Throwing “*dark energy*” on top does not remedy this.

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Dark energy, it was said, was an unknown force that led to the accelerating rate of expansion of space. This made the Big Bang's sharpness factor even *duller*, having yet another fundamental characteristic of the universe required. The objective of science is to *narrow* and *simplify* explanation, not to expand and complicate.

Therefore, interpreting observed redshift of distant galaxies to be the result of motion is an *extremely* big assumption. If gravitational redshift could be shown as capable of causing the redshifting, it would thereby *disprove* the existence of both "expansion of space" and "dark energy," as they would be seen to be the results of misinterpretations due to an invalid assumption. This would additionally improve the *sharpness factor*, by not requiring the existence of these two elements at the *sharpened tip*, since gravity could be used to explain the redshift without adding any other fundamental interactions.

The observation of redshift per distance for all distant galaxies is importantly in *all directions*. This made it much easier to interpret the redshift as the result of motion rather than gravity. However, the possibility that gravity is the actual cause is strongly supported due to the motion-based interpretation's *need* for the introduction of more complications to the model, as in the Big Bang. The question, then, becomes *how*?

When light moves *away* from a source of gravity, the force of gravity pulls on the light and stretches it into a redshift. When light moves *towards* a source of gravity, the force of gravity pulls on the light and compresses it into a blueshift. Gravitational redshift is unrelated to motion of the galaxy emitting the light, but rather is due to influences of gravity that the light experiences while it is traveling from its source to its destination, as shown in Figure 10:

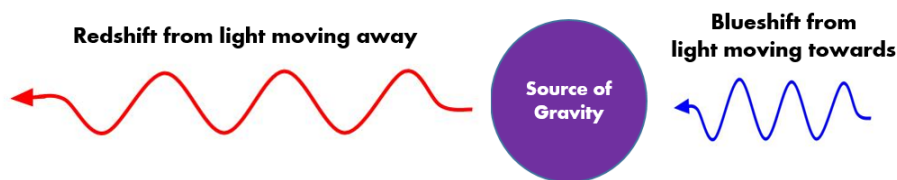


Figure 10: Gravitational redshift and gravitational blueshift due to direction of light travel relative to a source of gravity.

There was no immediate explanation for *how* gravitational redshift could produce the observations, and so it was *assumed* that it did not and thereby, through deduction, the conclusion was that motion *must*. After all, it does *appear* that way at first glance. Again, this assumption led to a more complex model.



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However, gravitational redshift *can* produce the observations of redshift per distance of galaxies in all directions, and due to not needing additional explanations it *does* produce the observations.

How it does this is literally not *straight-forward* and thus, without careful consideration, the mechanism behind it was not recognized.

The universe is the manifestation of infinity, having ever smaller and ever larger objects. This can be arrived at from simple pattern inference. We recognizably see that the moon orbits the Earth, which orbits the Sun, which orbits the supermassive black hole at the center of our Milky Way galaxy. This pattern implies that logically the Milky Way Galaxy should orbit another larger mass. And that should orbit a *larger* mass, and so on, *ad infinitum*. This pattern would also go in the *opposite* direction, always smaller, *ad infinitum*. Indeed, this is how the universe functions.

The recognition of redshift per distance in all directions of “Hubble’s Law” is significant because it means that *if* gravitational redshift is causing the observations *then* it is caused by *one single* object, and a *large* one at that. If many objects were behind the redshifts, then each would have different weights and would arrive at different degrees of redshift per distance due to their varying degrees of gravitational influence and so no correlation would exist. Only in the instance where the gravity of a single object causes the redshift of the light from all galaxies could a detectable correlation arise.

Therefore, the question then arises: *how does a single object produce all distant redshifted galaxies in all directions by gravitational redshift?*

As this larger mass would be in *one* position relative to Earth, on the surface it would appear that it is only capable of producing redshift in the light coming from those galaxies in its direction. The light, traveling to Earth, would move *away* from this object and thereby be redshifted. However, the galaxies on the opposite side of Earth relative to this object would emit light that travels *towards* this object in order to reach Earth and would be blueshifted, creating a dichotomy of essentially half redshifted and half blueshifted galaxies.

Notably, within a relatively short distance, in what is known as the *local group*, we do see this dichotomy<sup>14</sup>.

The Shapley Supercluster has the largest galaxy concentration in the nearby universe that recognizably forms a gravitationally interacting unit. In the direction of the Centaurus constellation, this conglomeration of galaxies exists along with what is known as the Great Attractor and the Centaurus cluster<sup>15</sup>. In the local group, light coming from galaxies *in the direction* of these systems is mostly redshifted and light coming from

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galaxies in the *opposite* direction of these systems is mostly blueshifted<sup>14</sup>.

This dichotomy is proposed in the Big Bang model to be due to a *flow* of galaxies in the local group. However, this interpretation stems from the assumption that the shifts in the light spectrum that we see from these galaxies is caused by motion. In the alternative, if we suppose that cosmological redshift stems from gravitational redshift caused by a single system, then the hypothesis becomes that one of these systems is overwhelmingly the cause. The Shapley Supercluster is the largest system in the nearby universe and therefore is herein proposed as the most likely source of gravitational redshift of all galaxies that we observe. This is evidenced through the dichotomy with respect to its position.

How, then, can one system which is in one position relative to Earth, which produces a dichotomy of half redshifted and half blueshifted galaxies in the local group, produce all distant redshifted galaxies in all directions?

The missing link here is what is known as gravitational *lensing*. When light is influenced by the gravity of an object, its direction of travel can be *bent* so that it curves due to the gravity of the object. This occurs, for example, in what is known as an Einstein Cross as seen in Figure 11:

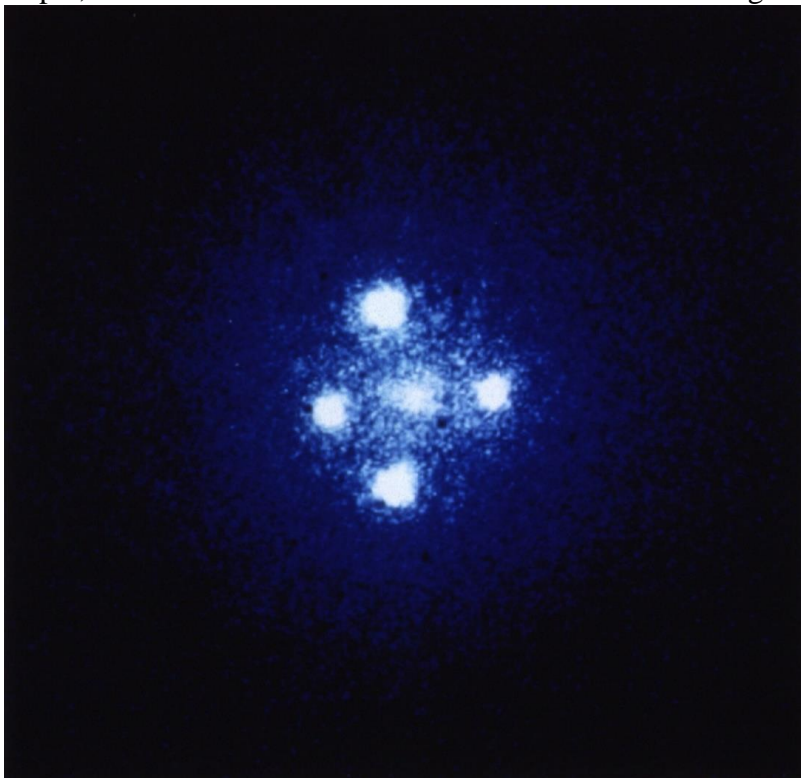


Figure 11: "Einstein Cross" where the central galaxy lenses the light of a distant quasar to produce four *optical illusions* of the distant quasar.

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This interaction was first proposed by Isaac Newton: “*do not bodies act upon Light at a distance, and by their action bend its Rays; and is not this action strongest at the least distance?*”<sup>16</sup>” The recognized source of gravitational lensing is typically a galaxy or group of galaxies because of their mass. However, this does not consider the universe to be infinite in nature. Light is not lensed substantially by lower mass objects at large distances of separation, but as we approach the mass of galaxies, light is more and more obviously lensed. However, what would happen to light if an object that was so high in mass that entire galaxies orbit around it were to lens said light?

If an object were sufficiently massive, it would be capable of lensing all light from galaxies in a volume that we perceive as large in the universe. And if it were sufficiently massive, it would be capable of lensing all light from galaxies *back to it*. In such a case, the path of travel of light around the object, if the light were able to travel through the object, would follow the same Figure-8 orbital structure as the particles that make up the electromagnetic field of an object. In fact, the light would *be* part of the object’s electromagnetic field. And after a portion of traveling a single time through the orbital or many repetitive full orbitals, light would be capable of reaching Earth from any angle.

This would mean that over short distances, such as those in the *local group*, the light would be incapable of substantial gravitational lensing because it is not *exposed* to the gravitational effects for sufficient periods of time so as to become greatly lensed, forming only a nearly straight portion of a Figure-8 segment. Over larger and larger distances that the light travels, it would become so substantially lensed that it does not travel in a generally straight line to reach Earth, but rather travels in a Figure-8 orbital about this object. As a result of this Figure-8 structure by which the light travels, it would be capable of arriving at Earth from *any angle* and at increasing distances.

What is most interesting about this seemingly hypothesized trajectory of light arriving at Earth is that the more times the light travels through the Figure-8 orbital structure, the more it would be *gravitationally redshifted*. This can be envisioned most easily by separating the motion of a single loop into *radial motion* from the center and *orbital motion* about the center. From the standpoint of radial motion, there are equal but opposite motions *outward* and *inward* in the travel of light in this manner. As a result, the redshift from radial motion *away* from the central object would be *equal and opposite* to the blueshift from radial motion *toward* the central object when a full loop is traveled. However, the *orbital* portion would *always produce redshift*.

This can be thought of alike to a planet orbital. At any point, if a

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planet were to suddenly stop being influenced by the gravity of the object it is orbiting, it would *start traveling away from the object it is orbiting*. This is because orbital motion is *always* away.

Due to this phenomenon, light traveling in a Figure-8 orbital about an object in this manner would be *additively redshifted* with each pass through a loop of the Figure-8. In other words, this would produce *increasing redshift per distance*. Due to a singular object being the cause, it would lead to a detectable correlation. And due to light being capable of arriving at Earth from any angle within a Figure-8 trajectory, it would produce *all distant redshifted galaxies in all directions*.

If this were to be happening, it would mean that, generally speaking, at larger distances we would see more and more galaxies. This is because when light travels short distances, it is incapable of taking many different angles to reach Earth because it must travel in essentially a straight line. However, over large distances where the light is bent, a single galaxy can emit light in *many* angles where it will ultimately arrive at Earth. This would give the *appearance* of there being more galaxies when we look out further in space. Moreover, it would give an appearance of a generally spherical area around Earth having lower density of galaxies.

The KBC Void is a comparatively empty region of space with the Milky Way generally at the center. This is an area of under-density that spans approximately 2 billion lightyears in radius<sup>17</sup>. This is the *largest* “void” known to science, and is roughly spherical in shape. It is important to note the oddity of our presence near the center of the largest void in the observed universe. This strongly suggests the void to be *observer dependent* rather than an *actual void*.

With the Shapley Supercluster approximated at 650 million lightyears from Earth, the void diameter is in line with an interpretation where the Figure-8 return of light from galaxies is necessary in order to begin to see more and more “*optical illusions*.” When light arrives at Earth from a distant galaxy, *we assume it has traveled in a generally straight line*. Therefore, when we create a *map* of galaxies, we physically *position* galaxies based off the angle at which the light arrives and the detected distance the light has traveled. This does not in any way account for large-scale bending of light due to sufficiently large objects.

As a result, we map a volume away from Earth that appears to be *under-density*—low in galaxies—because we are not properly positioning the coordinate location of the galaxy when it emitted the light. This would be akin to interpreting each of the quasars of the Einstein Cross as its own distinct object and creating a map with each. With an Einstein Cross, we can *see* the apparentness of the lensing due to the *proximity* of the

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observations and so we recognize only the *single source* exists and not *four*, but in the case of lensing to the degree of a Figure-8 where the apparent position of the galaxy emitting the light can be *anywhere*, we interpret these galaxies as *distinct and different*.

In three-dimensional coordinate space, the observed galaxy does not exist where it appears. Rather, it likely exists as a much *closer* galaxy, one which we see as being in the *local group* or in the general area of the *Shapley Supercluster*. Those beyond show themselves to be optical illusions by following the correlation of redshift per distance produced by gravitational redshift on Figure-8 light travel.

This means that we can see the *same* galaxy at *several* different times in the past because of the large range of varying distances light from a single galaxy can travel to reach Earth. Not just as slightly varied, but spanning *billions of years of its history*. In fact, it means that we can even see our very own Milky Way galaxy *from the outside* across *its history*.

By using the same explanation for how gravity causes electromagnetic fields in a model to explain how gravity causes all distant redshifted galaxies, the *sharpness* of the infinite model is greatly improved over “standard models” due to reducing the fundamental cause of both electromagnetic fields and all distant redshifted galaxies in all directions to being *gravity in one fell swoop*.

Therefore, space is *not* expanding and thus nothing is causing the *rate* of expansion of space to accelerate because space is *not* expanding. This means that “*dark energy*” is a misinterpretation as well, and the question then arises: *how does gravitational redshift produce accelerating redshift per distance at large distances?*

At large distances, all light from distant galaxies that follows the detected correlation of redshift per distance is doing so because the light is traveling in a repetitive *Figure-8 orbital*. This means that with each pass through, the light is more redshifted than it was when previously in the same general position in the orbital pattern. This suggests that as light redshifts, it leads to greater redshift per distance within the Figure-8 orbital structure. We will revisit why this is later, after a more thorough discussion of the environment: *infinity*.

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## CHAPTER 3

# The Structures of Infinity

### A. Structures of the Universe

The universe is a mind-boggling place, yet it has patterns that reveal its true nature. These patterns carry *weight* that is not incorporated in standard models, leaving us to wonder at the apparent illogical, inexplicable nature of reality. If we follow the patterns, though, the mysteries of the universe *reveal themselves*.

If we strip away all the complexities of what we *think* we know, and peel back the layers to reveal the foundational underbelly, what we can initially say with *certainty* is much less descriptive than what we *claim* to be able to say with certainty.

For example, what we call “*atoms*” have extensive descriptions that elaborately attempt to explain a full range of details about these observed components of the universe. From the nuclei constituents to the “*charge*” of the atom’s particles, *everything* we claim to know of the particulars of these structures is built on sweeping, universally applicable *approximations*.

Even the very claim that there *are* hydrogen atoms, or helium atoms, or any particular element of the periodic table is built on assumptions; assumptions that these systems—which share apparent similarities so great that we cannot distinguish their differences—actually *are* identical. In truth, what we can say *with certainty* about these systems is much less and far more *generic*.

Regarding “*atoms*,” the following are known characteristics:

1. They have a central mass portion, and
2. They have an orbiting mass portion.

Any further details are too descriptive and carry assumptions with them, some of which can easily lead into subsequent assumptions. To

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even call the central mass a “*nucleus*” leads to a wide array of additional details about “*nuclei*” that are built on inference and assumptions. Similarly, to call the orbiting mass portion “*electrons*” instills an unconscious assumption of supposed “*charge*” properties to the particles. It is important to recognize that just because something *behaves* a certain way *in a certain environment* does not mean that that behavior is an *intrinsic* characteristic of the system. Charge is not something that just *exists*, the observations that we call “*charge*” have an actual explanation beyond the labels, which we will discuss.

These systems are so difficult to observe that we cannot reliably claim to know with certainty anything else about their characteristics from exclusively studying “*atoms*.” Everything else we “*know*” about them is conjecture.

In order for proper understanding to arise, it is necessary to strip away the complexities of hypotheses and get to the root of what is fundamentally known. We can clearly see that “*atoms*” have specific masses where they tend to exist. This would suggest that we can, therefore, say that groups of identical systems exist at distinct weights that we can then label with names. However, at its core this only indicates that there is a *trend*. If we exclude variation from an exact trend, we inadvertently *assume* that the trend is *absolute*. Rather, this trend suggests only that there are *stability points* where systems find balance that they tend to be in *or very near*.

“*Atoms*” are *small*. At least from our perspective. And so, we do not generally experiment and deduce details about these systems *individually*, but rather through measurements of many systems *simultaneously*. This leads to a process of grouping all those that are so observably similar to one another into larger groups which we then obtain an average weight thereof and hold it as *exact*. If one hundred people who all weigh approximately the same are weighed, their average weight will be very close to each individual’s weight. This does not mean that these people are all *identical*. Instead, elements of the periodic table consist of groups of *very similar* systems which are so close to each other in properties that we *approximate* them to actually *be* identical. The same can be said of electrons. All we can really say is that there are trends of balance and stability where systems tend towards. We *cannot* say that *identical* systems exist.

We need only look at what we can observe most directly to recognize this. Larger systems such as stars, planets, and moons all are recognizably *different* from one another. If we look at any system we can directly observe in the cosmos, *none* exhibit this *sameness* that we

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attribute to the particles we cannot *look at*. No one would suggest that because a star has approximately the same characteristics as another star that they are *identical*. Recognizably, they would be two systems having varying arrangements of the *many* particles which make them up. However, their nearly identical characteristics would make it clear that they *behave* very similarly. The distinction would remain that they are not *identical* but rather are very *similar*. The same can be said of “*atoms*.”

Just because we cannot directly observe “*atoms*” does not mean that the systems suddenly *are* identical. This is a common mistake in the study of particles, to disregard the *uniqueness* of the systems we can directly see when analyzing those we cannot. From a logical standpoint, this requires a fundamental differentiation between how systems function at our scale versus how they function at the small-scale. As a result, it does not pass the *sharpness* test due to requiring this differentiation. Thus, caution regarding claims that systems are the *same* is necessary.

The same can be said regarding the existence of “*protons*” and “*neutrons*.” While there are distinct trends that occur, the interpretation of the *existence* of these nuclei constituents—and *their* constituents in quantum mechanics—suggests there are functionally *different* and “*simpler*” “*elementary*” particles on the small-scale than what we can *directly* observe. It is for this very reason that a ground-up approach of starting from what we can *see* is important.

When we look at planets and stars, we see single, spherical bodies. We do *not* see any *conglomeration* of, say, fifty identical particles which make up a single planet or star. This goes against all logic and reason. And yet this is precisely how we envision the nucleus of an atom. This differentiation between the nucleus of an atom and the makeup of a planet or star is a more complicated description than one where each system functions mechanically the same. In other words, the nucleus of all atoms is a *single system*, it is *not* composed of actual particles called “*protons*” and “*neutrons*” in some sort of *conglomeration*. There is no increased complexity in the general behavior of particles as they get smaller.

To delve into protons and electrons further, it is necessary to review the *history* of how each came to be *considered* to function as described.

The word “*electron*” is derived from the Greek word for *amber*. In 1600, the word *electricus* was coined by William Gilbert, later developing into the words “*electric*” and “*electricity*.”

In 1733, C. F. du Fay proposed a *two-fluid theory* where electricity comes in two varieties that cancel each other. When glass is rubbed with silk, according to du Fay the glass was charged with *vitreous electricity* while the silk was charged with *resinous electricity*. Similarly, when



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amber was rubbed with fur, the amber was charged with *resinous electricity* and the fur was charged with *vitreous electricity*.

In 1839, Michael Faraday showed that static electricity, current electricity, and bioelectricity were all a result of the behavior of a *single* kind of electricity appearing in opposite *polarities*. It is *arbitrary* which polarity is called *positive* and which is called *negative*. This is a subtle clue into the nature of charge, as these labels only carry with them recognition of a polarity rather than what has come to be called “charge.”

James Clerk Maxwell, in *A Treatise on Electricity and Magnetism*<sup>13</sup>, showed that when a piece of glass and a piece of resin are rubbed together and *left in contact* they exhibit no electrical properties; it is only when they are separated that they attract each other. By rubbing a second piece of glass with a second piece of resin, it can further be shown that the two pieces of glass *repel* each other, the two pieces of resin *repel* each other, and each piece of glass *attracts* each piece of resin.

Any body that, then, repels the glass and attracts the resin was said to be *vitreously electrified*. Alternatively, if it attracts the glass and repels the resin then it was said to be *resinously electrified*. All electrified bodies are one of these forms.

An established convention in the scientific community defines vitreous electrification as *positive* and resinous electrification as *negative*. The exactly opposite properties of these two kinds of electrification are the *basis* for the opposite signs, but the assignment of each is considered a matter of *arbitrary* convention. This means that the main reason we have come to look at electrons as having *negative charge* is because they *tend to flow in this manner relative to their environment*. This is the basis for why “*electrons*” are said to be negative in charge.

With regard to the history of protons, in 1815 William Prout proposed that all atoms are composed of hydrogen atoms<sup>18</sup>, based on interpretation of early values of atomic weights.

Ernest Rutherford discovered the atomic nucleus in 1911<sup>19</sup>. In 1917, he went on to conclude that the hydrogen nucleus is present in *other* nuclei, a result described as the discovery of “*protons*.” Through radiating nitrogen gas with alpha particles—consisting of helium nuclei without its electrons—he recognized signatures of typical hydrogen nuclei as a product. He found that when alpha particles were introduced into nitrogen gas, it produced *oxygen-17* and *hydrogen nuclei*.

*Due to this result*, Rutherford concluded that hydrogen was the building block of all elements, describing the hydrogen nucleus as being present in all other nuclei as an “*elementary particle*.” This led to the hydrogen nucleus being assigned the name of “*proton*.” However, just because a hydrogen nuclei is produced does not mean it was physically in

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existence as an individual component of the nucleus prior. This does not preclude a system, when sufficiently energized, from reacting to the energy to enter a new stable state by *producing* a hydrogen nucleus, however. In other words, it does not inherently mean that the hydrogen nucleus was present in the parent atom's nucleus.

Once more, this is a result of how these particles tend to behave *relative to their environment*. Of critical importance to note is that the free proton having no electrons is able to be *stable* under certain conditions; meaning, it is stable *without* an electron to “*balance*” its charge. In particular, free protons exist in *plasmas* in which temperatures are high. This shows an important clue in the understanding of how these systems *function*, since they do not always *behave* as having a “*charge*.” This environment-dependent characteristic indicates that what we consider to be a “*positive charge*” is only such when it is in the *environment* where we see it as behaving as a *vitreously electrified* system.

We will return to charge to discuss what causes this observation in a moment. First, to better understand how atoms function it is important to step away from atoms and *compare* systems of all masses to recognize *shared characteristics*. This process enables recognition that all systems function the same. From a *sharpness factor* standpoint, this is supported by its simplicity because it is the least *complex* description possible. Models are more complex when they suggest that the behavior of systems that we see differently *is* different, requiring individualized descriptions of each rather than a blanket explanation of all. This is alike to claiming that each planet follows its own laws rather than all functioning under the same *universal* laws.

The best way to see the shared functions is to look at *larger* systems because we can see them in more detail. Therefore, planetary systems are now considered.

When we look at planets, immediately we see that in large objects there is no apparent *identicalness*. This confirms that individual “*atoms*” are also not identical to one another. Using the same process of removing all descriptions beyond the most generic descriptions of these systems, we can say that:

1. They have a central mass portion, and
2. They have an orbiting mass portion.

For a planetary system, the central mass portion is the planet itself. The orbiting mass portion comprises moons, planetary rings, and “*electron belts*” such as the Inner and Outer Van Allen belts.

These generic features seem to repeat themselves. This repetition of features across a wide array of systems is recognizably a *pattern*. From

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a logical standpoint, patterns are vital to recognize because they allow us to extend our understanding of the behavior of systems we see in certain ways to other systems we cannot see in the same way. This functions as a process of “*ironing out the details*”, where each system can be better understood by extrapolating from those we can see in specific environments.

With solar systems, the same pattern emerges:

1. They have a central mass portion, and
2. They have an orbiting mass portion.

In a solar system, the central mass portion is the star while the orbiting mass portion comprises the planets and the belt systems such as the Asteroid belt and the Kuiper belt.

Then for galaxies, again the same pattern emerges:

1. They have a central mass portion, and
2. They have an orbiting mass portion.

In galaxies, the central mass portion is the *supermassive black hole* and the orbiting mass portion comprises the disc of the galaxy.

With galaxies, due to their high mass and slow functionality *from our perspective*, additional features can be distinguished. For example, galaxies can have “*spiral arm*” structures as shown in Figure 12 below.

Notably, not all galaxies have this structure. And so, to consider the cause to spiral arms we can look to *another* system for explanation. This is a perfect example of doing so to “*iron out*” the details of the mechanics behind an observation.



Figure 12: Spiral galaxy M101. ESA/Hubble CC BY 3.0.

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Referring to the solar system, the sun's rotation causes its electromagnetic field to rotate and this leads to what is known as the *heliospheric current sheet*<sup>20,21,22</sup>. The sheet acts to separate regions of solar wind, discovered by Dr. John M. Wilcox who first published the image of Figure 13 in 1980 in *Science*. The structure of the heliospheric current sheet was based on observations of solar wind and the corona and coronal field models:

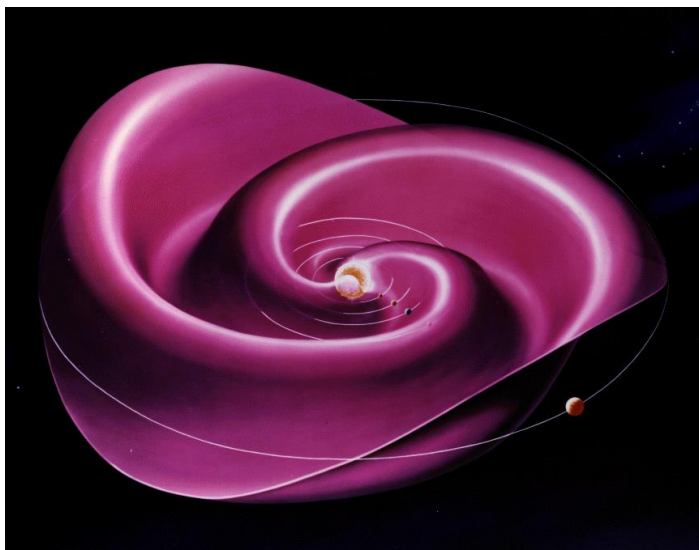


Figure 13: Heliospheric current sheet.

Due to each unique and distinct system operating by the *same* underlying principles of the cosmos, so, too, does the creation of the spiral arm structure in a galaxy occur by the rotation of its central mass and its electromagnetic field.

In this simple example, we can see how limiting our description of what is *actually* known as conservatively as possible produces the outcome of a much more precise interpretation that we can hold firmly to be accurate: that spiral arms of galactic structures form due to the rotation and electromagnetic field of the central mass object. This is *not* the current theory. Instead, the spiral arms of galaxies are attributed to the rotation of the *disc* structure<sup>23</sup> rather than the *central mass*.

While this is a nuance, there is no recognition of the actual rotation of the central object itself. This drastically limits our ability to understand the underlying fundamental causes of these observed interactions because we see them so differently that we do not look to a wide range of observations to decipher what is occurring in individual observations. Galaxies are only analyzed with respect to other galaxies, solar systems

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only with respect to other solar systems, planets with respect to other planets, atoms with respect to other atoms. This limits our capacity to decipher how reality is because we are not inferring from systems that *appear* different, unnecessarily limiting the *range* of observations that can assist in deducing the *nature* of each particular system. It is thought: “*Atoms are not planetary systems are not solar systems are not galaxies.*” And yet they are.

Large-scale variations in steady-states produce an apparent classification and categorization between observed systems as belonging to a particle’s “*labeled group*”—atoms, planetary systems, solar systems, and galaxies. This leads to interpreting each as *separate* from the others. “*Atoms*” are “*atoms*” and are analyzed as “*atoms*,” without consideration for the functionality of other systems. The analysis becomes so “*microscopic*,” boxed in and approximated, that it no longer describes *reality* and it instead represents but a faint shadow of what *exists*.

We *are* able to cross systems that appear differently because the universe is *infinite*. If each particle in the infinite structure of larger and smaller particles functioned differently, the complexity would be *infinite* and the *sharpness* of the model would be as *dull* as possible. When all systems are seen to have the same underlying mechanics, then the *sharpness* is as *sharp* as possible, having only *one* unified explanation for all and thereby an infinite “weight” and “density” behind it.

If galaxies and solar systems have a moving electromagnetic field that causes disturbances to their surrounding orbiting mass, what does this tell us about rotating “*planets*” and “*atoms*”?

Through cautious pattern inference, concrete conclusions can be made about systems *other than* those being analyzed *with confidence*. This is done by repetitively considering observations in each classification of particles and inferring what it tells us about the functionality of *other* systems. As a result, what we can say with *certainty* is able to become much *more* descriptive and absolute than what we were *claiming* to be able to say with certainty.

Truth only reveals itself when each system is seen to be unique, different, and distinct, and yet to function by the same underlying principles as all other systems.

In the case of a rotating planet having an electromagnetic field such as Earth, this pattern inference process indicates that the *Van Allen belts* are manipulated by the *geospheric* current sheet of Earth to function as a spiral disc structure.

This is because the Van Allen belts of Earth, the Asteroid and Kuiper belts of the solar system, and the disc of a galaxy are *analogous*. Though we see each differently as a result of using specifically the

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particles that we call “*atoms*” to observe each, their *function* is the same. It is the relative mass of the components of each system compared to the “*atoms*” which we use to observe them that dictates *how* we see a given system.

It is *not* that each is *intrinsically* as we see them, but rather due to the ratio of the mass of our largest building blocks that we use to observe every system to the mass of the observed system that determines how we see each.

In other words, our solar system *is* a galaxy. We are composed of “*atoms*,” and so we see our solar system as we do. This does not mean that all life in the universe is specifically composed of the building block that we call “*atoms*,” but rather an observer can be composed of *any* of the infinitely larger or smaller building blocks.

In this way, the universe is *fractal* in nature. An observer composed of building blocks *smaller* than our “*atoms*,” particles having the same *mass ratio* to our solar system as our “*atoms*” to the mass of a galaxy, would *observe* our solar system *as a galaxy*. Relative to the Kuiper belt, the Asteroid belt and planets are close to the sun and compose only a small portion of the volume of the solar system. What we call the Kuiper belt would be observed directly as the *disc* of the galaxy that is our solar system, to this smaller observer. Moreover, due to the heliospheric current sheet, it would be seen as a *spiral* galaxy.

Much the same, an even *smaller* building block observer would look to our planetary system as a *galaxy*, seeing it as such when they have a similar mass ratio of their building block to our planetary system as the mass ratio of our “*atoms*” to what we see as a galaxy. This raises many questions regarding the nature of “*black holes*” which we will revisit soon.

It is important to note that *if* this is the case, *then* we would be able to see that the sun and the Earth function the same because each are the *general* “central object.” In fact, if the universe is infinite then all “central objects” *must* function the same. A very similar process can be conducted to determine whether or not there are parallels between the systems that indicate if this is the case.

First, the sun has the following characteristics:

1. A “*photosphere*”, the outer shell from which light is radiated,
2. Emissions largely in the “*visible light*” spectrum,
3. Sun spots form in the photosphere, and
4. Solar flares emit from sun spots<sup>24</sup>.

The question becomes: *does Earth have the same characteristics?* The Earth is a smaller mass than the sun. Generally speaking, even

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though systems function the same, the *rate* at which they function relative to other systems is dependent on their mass. For example, a planet orbits the sun much slower than an electron orbits an atomic nucleus. With that in mind, the Earth has an outer shell from which light is radiated, as seen in Figure 14:



Figure 14: Air glow of ionosphere as seen from the International Space Station.

While the sun emits in what we see as the visible light spectrum, this is a function of the mass of the sun. For the Earth, the emissions instead are in the *infrared* spectrum. This is because the Earth is less massive and therefore its emissions are less energetic. If we consider in the *opposite* direction, that of a significantly *more* massive object than the sun, then this indicates that a sufficiently massive object would emit *beyond* the visible light spectrum and instead be seen as emitting in the *x-ray spectrum*. This concept is centrally important to the understanding of “black holes.”

When it comes to sunspots and solar flares, the positioning of sunspots at the *edge* of the photosphere is an important aspect of these features of the sun. If the same structures exist on the Earth, due to the relative mass difference and the faster rate by which smaller objects generally function relative to larger objects, then we would expect these to be more difficult to see and more rapid *and* at the edge of the *air glow* of the ionosphere.

Large thunderstorms on Earth are capable of producing various electrical phenomena known as ELVES (Emission of Light and Very Low



Frequency perturbations due to Electromagnetic Pulse Sources) and sprites<sup>25</sup>.

ELVES are *disc structures* that can be detected at altitudes of 100 kilometers above the Earth. These form specifically over thunderstorms. Sprites are electrical discharges which occur *above* thunderstorms as *upward lightning*. Specifically, sprites arise from a thunderstorm and consist of filaments which eject outward from the confines of ELVES as shown in Figure 15:

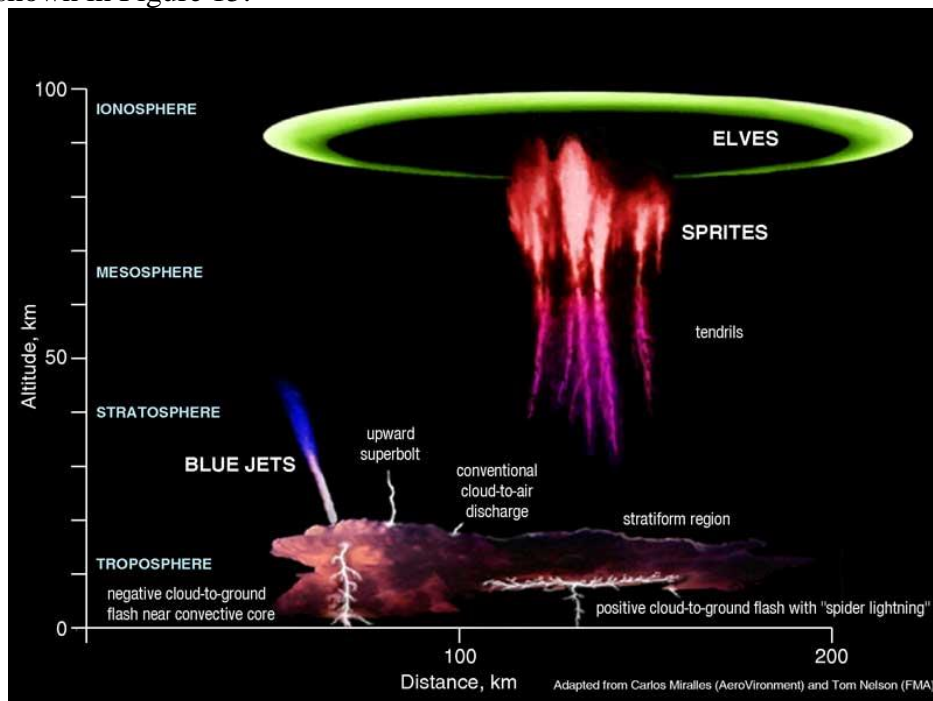


Figure 15: Image showing the structure of ELVES and sprites.

Functionally, ELVES are Earth's "sunspots" and sprites are Earth's "solar flares." In other words, Earth is a star.

This brings us back to "black holes." What this analysis suggests is that these objects function *no differently* than any other that we observe. Why, then, do they appear to *behave* so extremely?

Since their discovery, the description of the nature of black holes has been built upon the years of speculation leading up to that point<sup>26</sup>. It is taken for granted that black holes *are* black holes to begin with. Specifically, that they are *singularities* from which nothing can escape, as this description finds its origin even *before* they were observed.

Thus, the first step to understanding how black holes have been interpreted, just as with the systems above, is to look back through the history of interpretations that led to current outlooks. This process enables



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consideration of the thought process that has been used which exposes where assumptions were made.

Before these objects were known, the first step in the process of their interpretation was the description of gravity by Sir Isaac Newton. From this, in the 18<sup>th</sup> century John Michell<sup>27</sup> and Pierre Simon LaPlace theorized that if an object was massive enough then the escape velocity would be greater than the speed of light. This meant that even light could not escape such an object.

Fast-forwarding to the 1960s, John Wheeler helped to popularize the term “*black hole*” assigned to such a body. This was used to describe such an object where light could not escape its force of gravity. Up until this time, no *observations* had been made that provided the critical supportive evidence of their existence. In 1971, Cygnus X-1 was identified as the first object recognized to be a black hole<sup>28</sup>.

Since then, their existence has been confirmed by many observations. Their interpretation, though, has included the same foundation throughout. This basis has shaped how we describe the nature of these objects ever since. It has been taken for granted that black holes are *singularities* due to our inability to *visibly see them*. This is compounded by the speculative proposals of their existence prior to their observation, which included descriptions of the *nature* of these objects.

With this in mind, the most important observation about the nature of black holes, defined as singularities, that has been overlooked is the x-ray light originating from them, as shown in Figure 16 of Cygnus X-1:

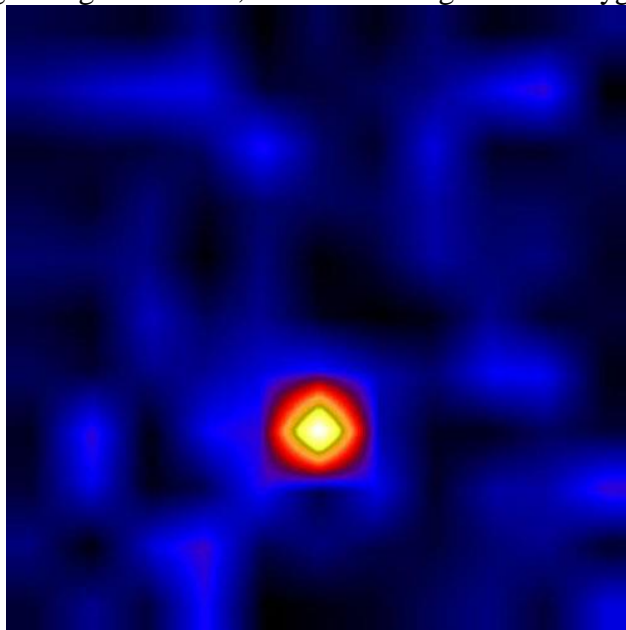


Figure 16: X-ray image of Cygnus X-1.

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The x-ray light from a black hole is specifically interpreted in current scientific models to be emitted by the gas *surrounding* the black hole. It is not interpreted to be the actual black hole itself. This is because the objects were already concluded to be singularities and so when we found objects we could not see *in the visible light spectrum* we interpreted that they *were* these theorized systems, and thus concluded the x-ray light must come from *surroundings*.

In reality, all systems function the same. Just as how Earth is a star, so too is a black hole. Rather than the above image being from the *surrounding* gas, instead it shows the actual *photosphere* of the black hole object. In addition, due to its higher mass, it releases radiation *beyond* the visible light spectrum. Instead, it radiates in the *x-ray spectrum*. As a result, when we look at the object in the visible light spectrum, all we see is a gravitational anomaly and *no* object. This is not because the object is a singularity, but because we are looking at it in the *wrong* spectrum. In the x-ray spectrum, we see it *as it is*; as a luminous, voluminous body in space, just like any star or planet.

This brings us back to the observer composed of smaller particles looking at our solar system and seeing a galaxy. They see the sun *as* a black hole because the mass ratio of their particles to the emitted radiation makes it appear in the x-ray spectrum. When they look at the sun in their perceived visible light spectrum, they only see a gravitational anomaly. A smaller observer still would see the infrared radiation of *Earth* as x-ray radiation and would see Earth *as a black hole*.

This touches upon the nature of light. There is an infinite span within the electromagnetic spectrum. This span does not just arbitrarily exist, but for a given observer they see each wavelength as they do specifically because of the mass ratio of their building blocks—“*atoms*” in our case—to the mass of the particles of which the light is composed. Light is not *massless*, but rather is so perceivably *low* in mass that we cannot *detect* the difference. The entire electromagnetic spectrum arises from the differences in the mass of the particles emitted by a given source. Lower energy radiation, such as radio waves, are lower energy specifically because the particles of which their light is composed of are lower *mass*, while higher energy radiation is composed of particles of relatively higher mass. Thus, when an observer’s building blocks are different than our own, the same mass ratios of their building blocks to the particles of the light they see will dictate which systems are seen as which variety of light, or even if it is seen as light at all or instead as atoms, planets, stars, black holes or beyond.

This is because the above parallels allow us to use pattern recognition to deduce that this functional equivalence continues outwardly

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to infinity. If we could look at any system, using any mass particles having the same mass *ratios* as our “atoms” to what we see as galaxies, solar systems, or planetary systems, then we would see the system as *the same*. In order to interpret how smaller particles interact, therefore, then it is beneficial to extrapolate from this analysis to glean information regarding everything we cannot directly observe so that our descriptions are built on more *exact* understandings and less *approximations*.

## B. How Electric Charges are Caused

The concepts of positive and negative charge are so familiar to us and the functions of nature that they aim to describe are so present and in our lives that it is *easy* to conclude that there *are* such things as a “positive” and “negative” charge. Models using these terms to explain observations are very successful in describing what we see happening.

What they are *not* successful at, however, is explaining *why* these charges exist in the first place. We do not call a planet or a star “negative” or “positive”; why, then, do we conclude “charged particles” to be so *different*?

This way of describing what is actually occurring is an approximation. They are *not* different. The underlying processes causing particles to *behave* in this manner are even simpler and have nothing to do with “charge.”

The simplest examples are of a “positively charged particle” and a “negatively charged particle”, as shown in Figure 17:

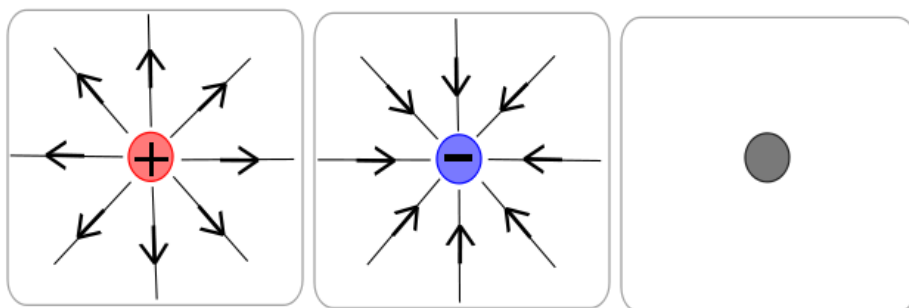


Figure 17: Electric fields of positive, negative, and neutral charges.

For a positively charged particle the electric fields specifically are *outward*, while for a negatively charged particle the electric fields specifically are *inward*. For a neutral charge, no such field is present. The question is: *why*?

When we assume that “charge” actually *exists*, then the answer goes no further: “*it is in their nature.*” However, this does not truly

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answer the question of *why* this happens.

The critical element is that charged particles are *out of balance with their environment*. Only when there is an imbalance is there a charge perceivable, otherwise the system is seen as neutral. Balance is *equilibrium*. On Earth, when our surroundings are in equilibrium, we have calm and peaceful weather. When there is an imbalance, we have *high-pressure* or *low-pressure* storm systems develop.

What is most telling is how these systems form and interact. A high-pressure system, due to it being *above* equilibrium with its environment, pushes *outward* on the lower pressure environment surrounding it. Inversely, low-pressure systems, due to being *below* equilibrium with their environment, have particles pushed from the surrounding higher pressure environment *inward*, as shown in Figure 18:

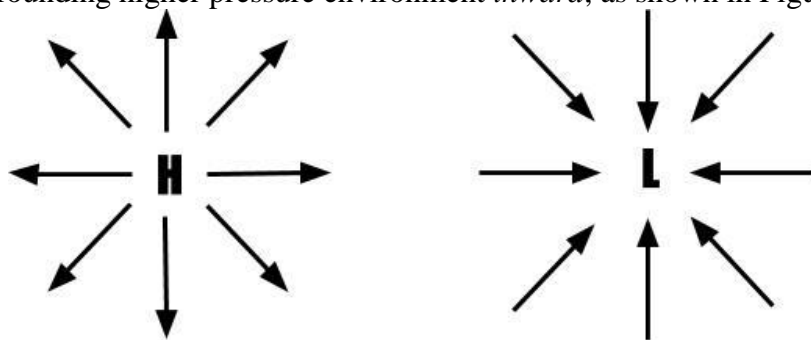


Figure 18: Flow of air in a high-pressure and low-pressure system.

Simply put, what this tells us is that “*positively charged particles*” are high-pressure systems relative to their environment with higher outflows than inflows and “*negatively charged particles*” are low-pressure systems relative to their environment with higher inflows than outflows. In a storm’s case on Earth, this pressure is of the air. In the case of a “*charged particle*”, the pressure is *ethereal*; the result of a particle either radiating *more* mass than it receives from its local environment, or *less*. In both instances, the particles are out of balance with equilibrium and therefore exhibit traits of functioning in a way that brings equilibrium.

This is why “*like charges*” repel; because out of balance systems tend towards equilibrium, not further imbalance. Two proximal high-pressure systems will generally push outward and against one another, thereby separating towards the lower-pressure surroundings. Two proximal low-pressure systems move towards the balance of the high-pressure surroundings rather than the further imbalance of the nearby low-pressure system, causing repulsion. In the case where a high-pressure zone and a low-pressure zone become sufficiently proximal, the particles

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of the high-pressure zone are more easily able to flow into the area of the low-pressure zone than other relatively higher pressure surroundings and thereby they can merge together to bring the two systems to equilibrium, balance, and “*neutrality*.”

Therefore, the most complete way to describe a “*positive charge*” is as a high-pressure system and a “*negative charge*” is as a low-pressure system, respectively. This allows us to see *beyond* charge to the actual mechanism *behind* the apparent charge characteristic.

This additionally explains why plasma, which is a free proton without any electrons, is stable. As a proton, we generally see it as a positive charge, meaning it is a high-pressure system. However, plasma exists at extremely high temperatures such as found on the sun. Only in the *environment* where the temperature is so high that what we normally see around us in *our* environment as a positive charge—a *high-pressure* system—become neutral. This is because temperature is not some abstract characteristic of a system, but rather it is a tangible measurement of the *density* of infinitesimal particles filling a given volume. If something is low temperature and becomes heated, there is a physical flow of infinitesimal particles that actively fill the volume of the object being heated. If the object is hotter than its environment, then these particles act in the same manner as “*charged particles*” where the volume of the hot object is *high-pressure* relative to its environment. This causes physical flow of particles from the object to the cooler environment until there is a balance between the pressure of these particles inside and outside of the object, such as in the case of an object at room temperature.

In the case of plasma, the physical presence of infinitesimal particles that fill the environment around the “*proton*” causes the proton’s environment to become higher in *pressure*. As a “*positive charge*” is simply high pressure relative to its environment, in a plasma the temperature is sufficient so that the environment’s pressure is equivalent to the pressure of the proton. Thereby, *it does not need an “electron” for equilibrium* because it is *at* equilibrium; it is in balance with its environment and therefore it is *stable*.

### C. Infinity Unbounded

The capacity of an infinite model to provide physical explanations for phenomena indicates that the universe *is* infinite. In fact, if we were to try to define *infinity* ourselves using words, we would fall short. The only way that we can define infinity is by pointing to the universe. It is more than a word, more than a number, more than anything; it is *literally* what the universe *is*. They are one and the same. It comprises all thoughts,

ideas, people, places, plants, animals, sciences religions, worlds, perspectives, time, and all other things. *Nothing* is outside of Infinity.

As has been discussed, all things function the same. The infinite array of differing particles of the universe make up layer after layer built of larger and smaller particles, all of which can be the largest building blocks which an observer is composed of, sharing the volume of space. These each are different *dimensions* within the single universe. In this way, though there is nothing *outside* of the universe, there are infinite planes of existence *within* the universe. Thereby, a single universe is capable of having infinite dimensions physically. This can be visually represented as in Figure 19:

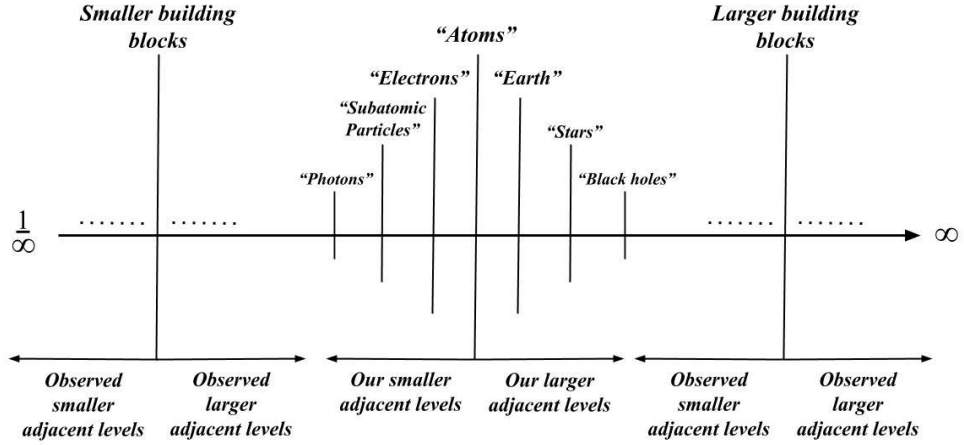


Figure 19: Depiction of position of other observers' building blocks within infinite scale relative to "atoms."

An observer composed of varied building blocks from our own would perceive their adjacent levels as we see ours and the rate at which time passes as we do. This is because their building blocks act as "clocks" which dictate the passage of perceived time. This can be envisioned by the clock-like nature of orbits such as electrons and planets. However, the *total passage of time* in an *absolute* sense would greatly vary. If their building block were larger than ours, then our entire eternity could pass in a blink of their eye. Inversely, within layer upon layer of smaller particles around us, eternity passes every instant.

The largest systems are frozen in time and the smallest race through time so fast that eternity passes. This sheds light onto the nature of time and of reality by stretching it to its very limits. It means that within *no* time, eternity exists. Similarly, it means that within *no thing*, *everything* exists.

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## D. Mirrors of Infinity

There are but two things: *all that is* and *all that isn't*. All that *is* is composed of everything—*infinity*; all that *isn't* is composed of everything else—*nothing*. The universe is a balance between *infinity* and *nothing*. This is because they are *equals*, in perfect *balance*.

Mathematically speaking, quite literally:

$$(1) \ 0 = \infty$$

And yet, while they are equals, they are *also* opposites. Nothing is the *lack* of everything. Zero is the penultimate low-pressure system—the perfect vacuum—and infinity is its opposite high-pressure system. From this balance *and* imbalance, everything that we see arises. From the equivalence, the universe always exists in balance. And from the opposition, *flow* arises. The passage of time and all the change we see comes due to this flow from infinity to zero.

It is noted here that this simultaneous balance *and* opposition between zero and infinity *gives rise* to Newton's Third Law: *For every action, there is an equal and opposite reaction*.

What happens when the flow reaches zero? As infinity and zero are equals, the flow goes in both ways. From zero to infinity, this flow looks to us as if it is going *backwards*. This is because *simultaneously*, zero *is* infinity and infinity *is* zero while both being opposites in each instance. This mirror half of the universe where zero and infinity are effectively *switched* is *observable*. This is not some abstraction, but rather is rooted in tangible and real observations.

A vacuum functions identically but *opposite in time* to a star. It absorbs large systems, breaking them down into smaller constituents and acts as a low-pressure system. When time flows in the opposite direction, a vacuum *becomes* a star. The process is reversed, where it takes smaller systems and combines them into larger and radiates them outward and functionally is a high-pressure system.

In precisely the same way, when the passage of time for an observer is seen in the opposite direction as our own, they still *experience* reality in the *same* way as we do. The difference is that what we see as planets, stars, galaxies and every other system, *they see as vacuum equivalents*. And what we see as vacuums in space, all having varying sizes and strengths, *they see as radiant bodies in the cosmos*.

This is because as the flow from infinity to zero occurs in one half, the flow backwards is happening in the other half. Infinity *is* zero and zero *is* infinity. Which is which for a particular observer is a matter of

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perception.

This leads to what is known as antimatter. Just as in a wave, there is a portion *above* the center point and an equal but opposite portion *below* the center point, so too does matter and antimatter function. The balance between zero and infinity exists *between* them and for every portion *above* the balance there is an equal and opposite portion *below* the balance. Like +3 and -3, +10 and -10; whatever it may be. For an observer, they can see both things. They are equals, and yet opposites.

In this case, what we call “*matter*” comprises the portions *above* the balance point between infinity and zero in our perception. What we call “*antimatter*” is that which exists *below* the balance point. These systems can be and are as large as their equivalent *matter* other half. They can approach infinity in mass and yet be opposites. Rather than being observed as massive stars, they are observed as *massive vacuums*.

When the direction of time is reversed, it is akin to switching the signs so +3 becomes -3 and -3 becomes +3; in other words, reversing time so massive stars become massive vacuums and massive vacuums become massive stars. Just as infinity and zero are one and the same, and yet opposites, so too are antimatter and matter one and the same, and yet opposites, due to this vacuum-star relationship. They even are exemplary representations of the *equivalence and opposition* of infinity and zero.

Richard Feynman, in *QED: The Strange Theory of Light and Matter*, discusses this interaction. He states<sup>29</sup>:

*“The path of...a ‘backwards-moving’ electron can be so long as to appear real in an actual physical experiment in the laboratory. ...The backwards-moving electron when viewed with time moving forwards appears the same as an ordinary electron, except it’s attracted to normal electrons—we say it has a ‘positive charge.’ ...For this reason it’s called a ‘positron.’ The positron is a sister particle to the electron, and is an example of an ‘anti-particle.’*

*“This phenomenon is general. Every particle in Nature has an amplitude to move backwards in time, and therefore has an anti-particle.”*

Just as zero and infinity are opposites, which are separate from one another, so too are matter and antimatter. These do not coexist in the same space because they become separate and yet *reversibly interchangeable*. Vacuum particles exist generally in vacuums, and when they form in an area of “ordinary” matter they cancel and bring balance in what is known as *annihilation*. Akin to +3 and -3 combining to form 0, the baseline.

In the case of antimatter and matter annihilation, two similar value systems combine and *balance* is achieved. This causes areas that are high



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in one or the other to exist. Areas where antimatter is most prevalent are *the vacuums of space*. There, if matter ventures it can be stripped apart and dissolved to feed the vacuum. In the same way as antimatter cannot calmly coexist without reaction around mostly matter, nor can matter calmly coexist without reaction around mostly antimatter.

And yet, in a reversed frame of reference, that vacuum which is stripping matter apart that enters it becomes a star which is merging matter and radiating it. In destruction, there is equal and opposite creation. To this extent, even, do Newton's Laws apply: *for every action there is an equal and opposite reaction*.

As mentioned, antimatter has an equal but opposite charge. Referring to the relationship of *pressure* to charge, this can be understood with reference to a balance point. Above the balance exists "matter" and below exists "antimatter." A simple number line can illustrate why we see the charges "flip" for antimatter. So let us look at one in Figure 20:

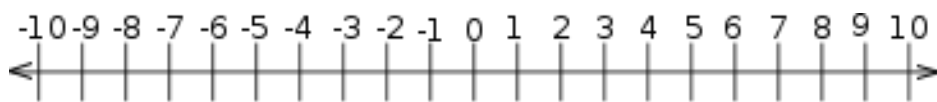


Figure 20: Number line depicting -10 to 10.

If we picture in this number line that 0 is the *balance* between two equals and opposites, then let us envision each number to represent an absolute mass value and the sign to represent matter as positive and antimatter as negative. A high mass *matter* object, let's say 10, will emit more radiation to its environment than its environment feeds it and so the highest pressure on this particular line is at 10. As we move downward, pressure gets lower and lower. Once we pass the balance point of "zero", *the pressure continues to get lower*. This is where vacuum particles of antimatter exist. As a result of this, a higher mass vacuum particle such as -10 is low in pressure. This means that it *behaves* like a "*negative charge*" while the lower mass vacuum particle *behaves* like a "*positive charge*".

We have been forced to ask the question, "*Where has all the antimatter gone?*" This is because we do not see much of it around, which is because antimatter mostly exists specifically within the vacuums of space for it is the vacuums of space.

Within each mirror half of the universe, individual systems ebb and flow between growth and decay. They move through environments growing until they enter an environment where they receive less radiation than they emit. This causes them to decay back towards equilibrium. As environment changes, equilibrium with it also changes. Generally speaking, this produces a wave-like nature of flow across time.

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If a system is growing, such a system receives *more* energy from its environment than it releases to its environment. Importantly, energy is synonymous with mass. Simply put:

$$\text{For } m = 0 \rightarrow \infty, m_{\text{in}} > m_{\text{out}}$$

This just means that as a mass,  $m$ , grows, it does so because it receives more mass,  $m_{\text{in}}$ , than it radiates,  $m_{\text{out}}$ . Here, zero and infinity are relative and can be used to represent any low and high points in growth of a mass and not necessarily just the two absolute end points.

As the system grows, however, if the environment remains somewhat constant then it becomes more at equilibrium with its environment, causing its rate of growth to slow down until it *reaches* equilibrium and it stops growing. In other words:

$$\text{For } m = \infty, m_{\text{in}} = m_{\text{out}}$$

When its growth stops, it releases equivalent radiation to the mass it receives from the environment. If the environment changes, then this balance will change. If it moves to a higher energy environment, it will repeat the first step of growth. When the system moves to a lower energy environment, then it will begin to release *more* radiation than it receives:

$$\text{For } m = \infty \rightarrow 0, m_{\text{in}} < m_{\text{out}}$$

It then shrinks back towards zero where it once more approaches equilibrium with its environment. This causes the rate of energy loss to slow down until it stabilizes:

$$\text{For } m = 0, m_{\text{in}} = m_{\text{out}}$$

From there, it then awaits an environmental change to grow or decay further once more. Over and over, this dance between *all that is* and *all that isn't* continues. At all points, a system can always grow larger or shrink further, representative of the infinite nature of reality.

As a function of time, this system's mass can be generally plotted as shown in Figure 21 below.

If this looks familiar, it is because the universe is built on this simple principle. It is from this perfect dance between *all that is* and *all that isn't* that *all that we see* arises.

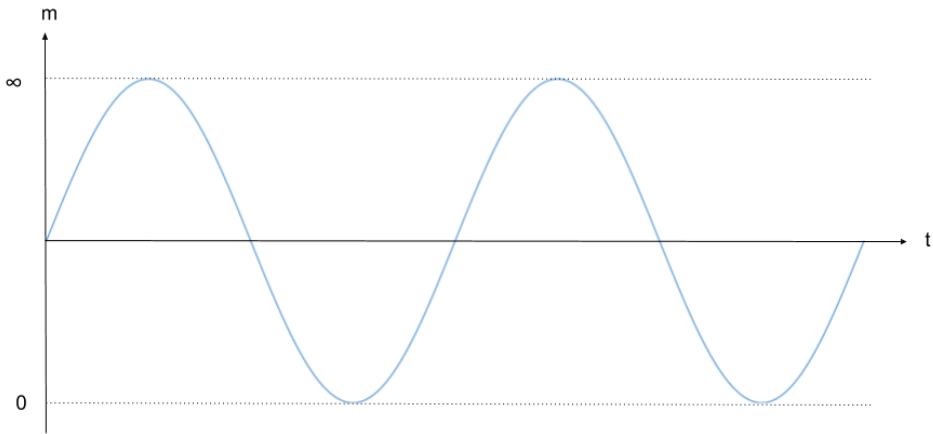


Figure 21: A wave function of a given system's mass caused by the ebb and flow of that system absorbing mass from a relatively high energy environment and releasing mass into a relatively low energy environment across time.

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## CHAPTER 4

### The Not So Fundamental Forces

#### A. The Fundamental Forces

In nature, there are said to be four “*fundamental forces*” that produce everything we see: *gravity*, *electromagnetism*, *strong interaction*, and *weak interaction*. By definition, a fundamental force is *causeless*. However, this does not pass the *sharpness* test because it *could* be simpler to have fewer. Moreover, as previously discussed, electromagnetic fields are the result of gravity. Therefore, electromagnetism is not as causeless as it appears.

Present models are unable to link these forces together, to explain any with another. However, it is possible to explain all other forces as a result of gravity. And to subsequently explain gravity as a result of the *infinite nature* of the universe.

#### B. The Nuclear Forces

Strong and weak interaction are known as the *nuclear forces*. These are *only* detectable on the atomic scale. As a result of this *limited* range of their applicability, it is clear that neither are *universal* but are *environment-dependent* emergent phenomena.

As has been established, there is a correspondence between systems of all different masses. Whether they be a star or an atom, they function equivalently. This principle indicates that the same phenomena are observable across layers. In this particular instance of the nuclear forces, the procedure is then to examine the characteristics of the forces to determine whether they are observable *in the objects of the cosmos*.

Strong interaction is said to cause subatomic particles in the nucleus to remain bounded through nuclear fusion. Historically, nuclear fusion of atoms is thought to occur generally at the center of a star. The process is where two systems will merge to become a new system and releasing energy and mass in the process as shown in Figure 22:

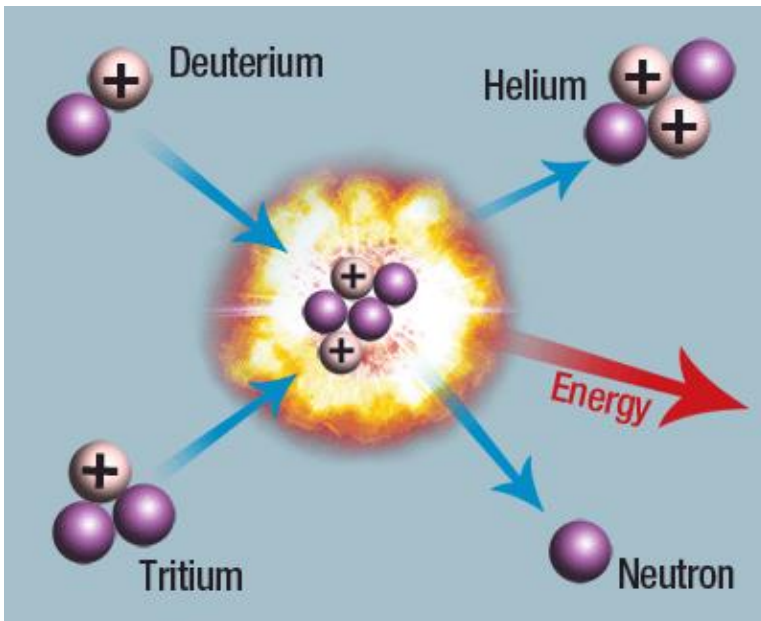


Figure 22: Example of nuclear fusion process.

Importantly, nuclear fusion is considered to involve systems such as “protons” and “neutrons” which make up the atomic nuclei, which has previously been discussed as an approximation. Each is *one* system, not a conglomeration as described. If we look to the stars, we can see this very same process in action.

Generalizing the process to two systems combining into a single larger system and releasing *specifically* energy *and* a smaller mass system, this very same mechanism exists in what is known as a *Supernova Type-1a*. This process is depicted in Figure 23 below.

These are the *same* process. Just as in nuclear fusion, for a supernova type 1a two masses come together and the larger mass extracts energy from the smaller mass until the larger mass reaches a critical point where it *explodes*, releasing a specific amount of radiant energy and pushing away the companion star after the process. When we witness a supernova Type 1a, we are also witnessing *nuclear fusion*. All things function the same.

In the case of a supernova Type 1a, we do not associate the *mechanics* to be the result of “*strong interaction*.” Rather, supernova are known to be gravity driven. In other words, gravity causes strong interaction because nuclear fusion is the same mechanism as supernova type 1a.

This is only reasonable from a *sharpness* perspective. As the result is a sharper *point* to the model, the conclusions are supported by logic.

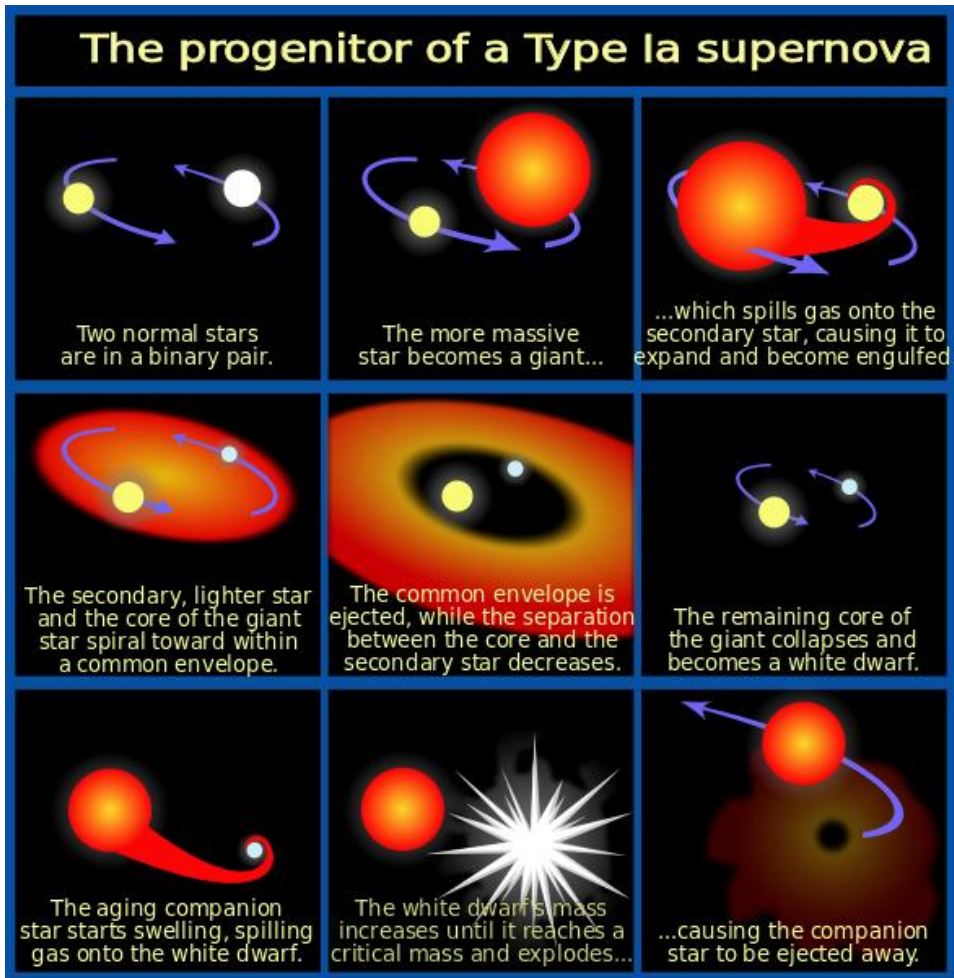


Figure 23: Process of a Type Ia supernova.

From a similar analysis, weak interaction can also be seen as the result of gravity. Presently, weak interaction is closely associated with *radioactive decay*. Using the same process—which is *part and parcel* of each step in the step-by-step deduction of the universe's mechanics—the two forces can be connected.

Once again, to see inward, we look upward. Radioactive decay can be characterized. It is the sudden and spontaneous decay of a system to a lower energy state, coupled with a release of radiation in the process. This spontaneity comes after a period of relative stability prior to the decay's occurrence. It is more prevalent in higher mass atoms, and radioactivity generally increases with mass.

As a nuclear force, focused on the *nucleus* of an atom, the same

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mechanism can be seen in the function of *stars*. While the supernova Type 1a was a specific circumstance where *two* systems merged, if we look specifically at *heavier* stars pushing the upper limits of the mass of a star, then we can see the same general trend where the *rate of supernovae* drastically increases as star mass increases. This is because supernovae *are* radioactive decay.

This can be considered from a *pressure* standpoint. When a system grows, its pressure outward is higher due to the accumulation of more and more mass in a given volume. Growth occurs due to an environmental influx of greater energy input than energy *output*. As a result, when a very massive star forms, it is also very high in pressure relative to the lower mass stars that occupy the same general environment. Over the course of time, it can enter into an environment that the lower mass star would essentially “*feel*” as “*high-pressure*,” and so the lower mass star is able to *feed* off the environment, but due to the very massive star’s high *pressure*, it experiences the same environment as “*low-pressure*.” If it is low enough, this can lead to a sudden expulsion of mass to the environment due to the imbalance being high. This then makes the environment higher in *pressure* while making the star lower in *pressure* and so the star can become *highly stable* relative to its environment, as balance is restored.

As a result, a system such as a star or an atom is much more *stable* than their “*peers*” in a *given environment* when they are in balance with that environment’s general density. Above or below equilibrium, unless the environment changes so the system is at equilibrium relative to a new environment, creates greater instability. Thus, masses furthest from equilibrium are the heaviest and the lightest; alike to infinity and zero, balance is *between them*. In balance, there is stability.

As supernovae are the result of gravity, so too is weak interaction. From the above analysis, where the principle of correspondence between all systems is recognized and applied, it is determined that gravity causes the nuclear forces. This improves the *sharpness factor* greatly, as these so-called causeless “fundamental forces” of strong and weak interaction are shown to be directly resultant from gravity.

### C. Electromagnetism

While two fundamental forces is less than four, it is still more than one. We have already discussed how electromagnetic fields are caused by gravity, strongly supporting that electromagnetism is the result of gravity as well. However, this explanation of how gravity causes electromagnetic *fields* does not explain how electromagnetic *waves* function.

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Therefore, in order to demonstrate that electromagnetism, too, is an *emergent phenomenon* resultant from gravity, it is necessary to delve deeper into understanding *what light is*.

It is said that light is an electromagnetic wave, having an electric field and a magnetic field. This, however, does not provide a fundamental description of what is *happening*. In order to obtain such a description, it is necessary to account for gravity's *role* in the process.

## Electromagnetic Wave

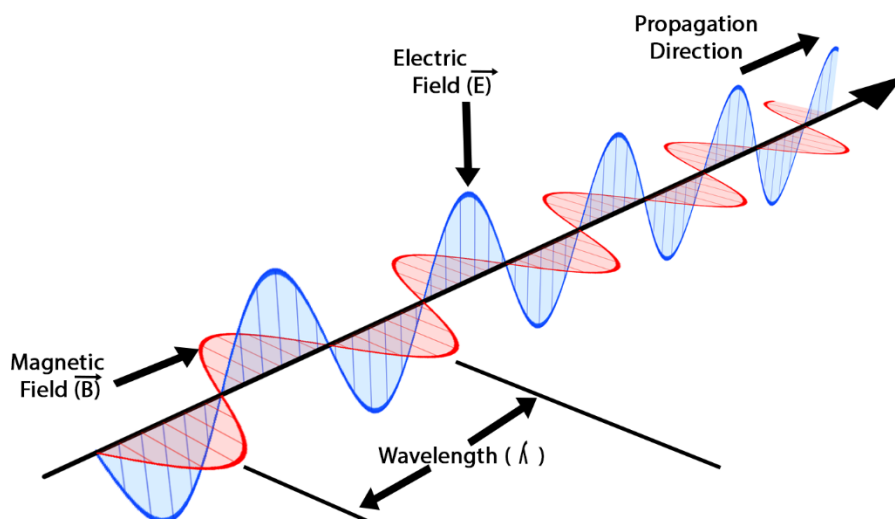


Figure 24: Electromagnetic wave.

In an electromagnetic wave as shown in Figure 24, there is said to be a wave of light propagating in a direction. The wave comprises an electric field portion which fluctuates orthogonally to a magnetic field portion. The wavelength is a measure of the frequency that the fields fluctuate between crests or troughs.

As we have been discussing regularly, all things function the same. Whether it be a star or an electron or any other system in the infinite cosmos, the same *mechanisms* are occurring in all systems. Due to a star's mass, these processes occur so slowly that—relative to the atoms of which we are composed—we barely ever see a single star in more than two stages. In other words, the most we see of a star is essentially before and after a single or a few rapid supernovae, at most.

However, due to the relative mass of electrons, the observed rate at which they function is distinctly *faster*. So much faster that we see it as



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*vibratory*. For a star, we say it supernovas. For an electron, we say it *becomes excited*. These are the same process.

With electrons, this does not just happen occasionally as supernovae, but is so frequent and rhythmic that their supernovae make up the pixels of reality around us that we see with our eyes. It is from them becoming energized by an outside source, where they then *supernova* and release a sudden burst of relatively higher mass particles—ones that we see as *visible* light—rather than their basal emissions without an outside energy source, by which we see our surroundings. Again and again, seemingly without end, they supernova.

We *see it* as an excited electron because of our relative mass, but the process is the same. This happens because of the expedited passage of time on smaller scales. In other words, even though we see this process as rapid and continuous, it is because we are seeing a *vast* amount of time pass within the frame of reference of an observer composed of sufficiently small particles where they *perceive* these excited electrons as *supernovae*. Essentially eternity is passing on such a small scale. Their experience would be the same as our own, regarding the frequency of observed supernova in the cosmos, when looking to these events.

It is from this periodic vibratory nature of cycles where the clues of how the electromagnetic spectrum is the result of gravity can be found. This indicates that just like a supernova there is a *non-uniformity* to the rate at which particles are emitted across long periods of time from an object.

For instance, when a star supernovas, it releases particles in all directions. If we extend this out to a sufficiently large period of time, then this leads to a cyclical process of short bursts of high density material with intermediary periods of stable, steady low energy emissions as represented in Figure 25:

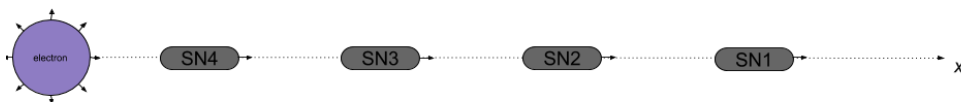


Figure 25: Depiction of emissions of an electron in one direction with segments of high density due to repetitive *supernovae* of the electron.

Here, SN1 through SN4 are each essentially outwardly propagating high-density gaseous clouds emitted with a particular supernova event.

In a three-dimensional representation, we can look at an example of a supernova such as SNR 0509-67.5 as shown in Figure 26:



Figure 26: Supernova SNR 0509-67.5 optical and x-ray composite image.

Envisioning electrons *pulsing* in this manner, we arrive at the high-density regions as shown in Figure 25. The rate at which this occurs is due to the system's relative mass and the degree of energy influx into the system from outside sources. Across a relatively short period of time, the radiation on a given electron stays generally continuous. This causes regularity and rhythm to the process, amounting in a given wavelength to light. The regularity to which this happens can be related to radioactive decay as follows.

Within a given class of particles—let's say an *octave*—they are unable to grow beyond a certain range without merging to become part of a larger system. For example, atoms cannot become larger than the periodic table's upper masses without becoming constituents of larger particles such as planets. And they cannot fuse together in this way

without sufficient energy. The same occurs for electrons.

As electrons receive radiation, they physically grow in mass just like a star. Dependent on the energy they are receiving, they can act as either a highly stable system which is lower in mass or they can approach the upper limits of mass for an electron in the same way as an atom can approach an upper limit. As a result, they supernova at a higher *rate*, just like radioactive decay increases drastically at high atomic weights. This rate determines the frequency of the high-density supernova clouds emitted, which ultimately determines the observed frequency of the emitted light, as shown in Figure 27:

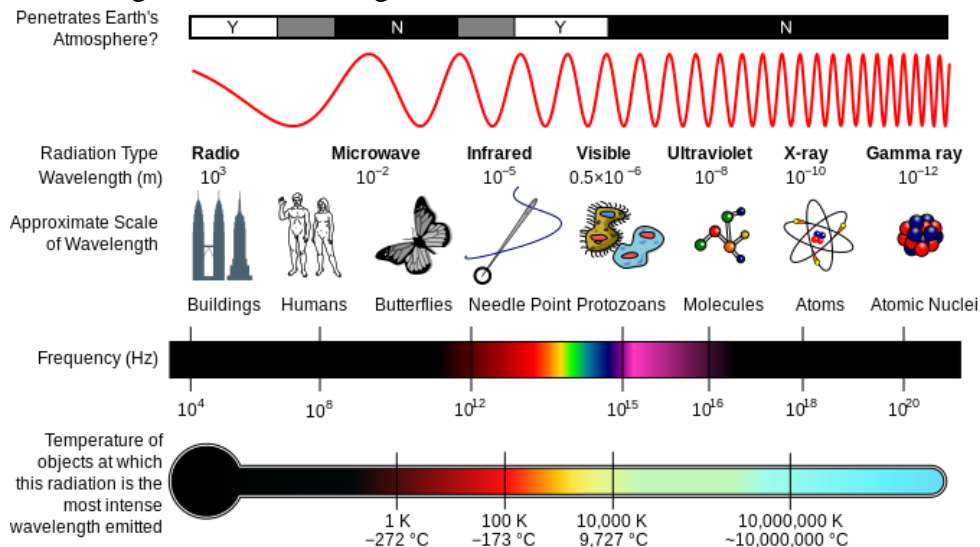


Figure 27: Electromagnetic spectrum.

And in the same way as a supernova cloud does not move as fast as the light emitted by the stable system, nor does the high-density material emitted by repetitive supernovae of an electron travel as fast as its intermediary emissions that occur while it is stable. This is ultimately because larger systems function slower. In the case of high-density material emitted in a supernova, it is of higher mass and thus functions at a slower rate. In the opposite direction, smaller mass particles move faster and faster. Up until they appear to be limited at the “*speed of light*.”

Importantly, “light” is just a name we ascribe to particles in the infinite scale that we perceive as sufficiently small to interpret large groups of them as “*light*.” It is no different than mass functionally. If we could zoom in sufficiently on a photon, it would look like a galaxy. And just like a galaxy, it would have other particles so small relative to it that their motion would appear as the “*speed of light*” while the zoomed on

photon would appear as a motionless galaxy in comparison. Over and over again, this thought experiment can be done to recognize that as particles approach zero mass, their velocity approaches infinite. We will come back to this in a moment.

With each supernova, a high-density cloud is emitted and then *lower mass particles emitted by the same object* physically flow *past* the high-density zones as depicted in Figure 28:

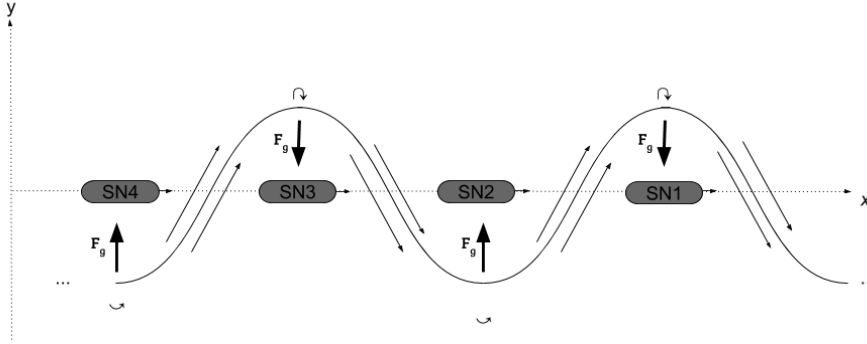


Figure 28: Flow of electric field produced by gravity relative to high-density regions.

This image, where the *propagating direction* is in the x-direction, depicts motion of high-density regions from the point of origin. Lower density, faster traveling low mass particles then physically flow *up and down* above and below the density segments. This occurs because of the *gravity*,  $F_g$ , of the high-density region particles on the passing mass. As shown, the wave forms from repetitive gravitational influences as the emissions weave between the high-density segments.

Similarly, while this is related to the electric field which has been written in the y-direction above, the magnetic field propagates orthogonally to the electric field, shown in the z-direction of Figure 29:

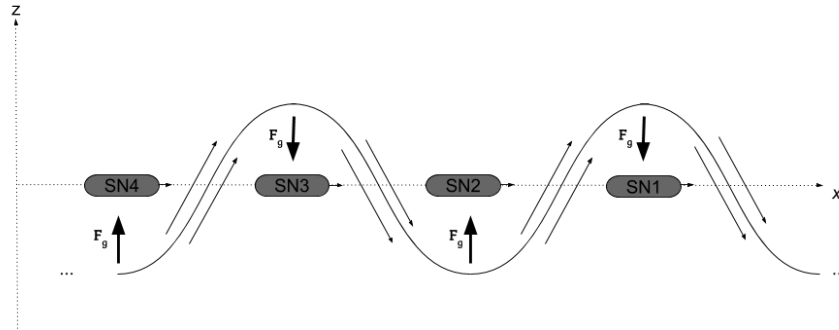


Figure 29: Flow of magnetic field produced by gravity relative to high-density regions.

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Mechanically, the electric and magnetic field function very similarly. The difference in direction is relatable to a high-pressure and low-pressure storm in the same way as “*charge*” is. For a high-pressure storm, air flow moves from the inside outward but is *fed* by air moving *orthogonally* coming from the top of the storm *downward*. For a low-pressure storm, it is the opposite, where air moves inward but then is fed *orthogonally upward*. In much the same way, when the electric field moves it has associated with it the orthogonal flow of the magnetic field.

As a result of recognition that gravity causes nuclear fusion, radioactive decay, electromagnetic waves, *and* electromagnetic fields, it is thereby shown that the fundamental forces can be reduced to *only* gravity. While this may be simpler than four fundamental forces, it is not a full simplification. As we have been building on regarding the universe being infinite, a balance between nothing and everything, even gravity is explicable as an emergent phenomenon within this structure.

#### D. Gravity

As we have been repeatedly revisiting, all things function the same. There are ever larger and ever smaller particles of which the infinite universe is composed. Each of these systems function identically, but at different observed time dilations due to the relative state of the observer. Meaning, what is seen as a star for an observer composed of a first of these ever larger or smaller particles can be observed as anything ranging from a photon to a black hole for a second observer composed of larger or smaller building blocks, respectively. And then, it can be so *unnoticed* that we do not presently recognize its very existence.

When a given system separates from its largest nearest source of energy, and moves out towards the apparent vacuum of space, it radiates like a star, for it *is* a star. This radiation, too, is a star in its own right. As these systems radiate and move away from their source, they receive less energy from the lowering energy density of the environment and thereby become smaller in mass. They do this until they reach a steady-state with their environment, breaking down into smaller and smaller systems. A vacuum effectively acts to *dissolve* particles into more and more of their constituents.

As a result, in *precisely* the same way as how more and more atoms filling a given volume press against one another causing a pressure outward, so too do these most unnoticeable of particles filling the volumes of the apparent vacuum press against one another with increasing pressure. As particles break down into smaller systems, their abundance produces an inverse high-pressure. In other words, though a vacuum is *low-*

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*pressure* when it comes to *large* systems such as atoms, it is *high-pressure* when it comes to its smallest constituents due to their *sheer abundance* in a vacuum.

The stronger the vacuum, the more *abundant* and broken down into smaller constituents each particle becomes, leading to higher and higher *vacuum* pressures on these particles specifically. This directly relates to “*matter*” and “*antimatter*,” where in this case the vacuum particle is the equal but opposite mirror to a “normal” particle brought about by the deviation from balance. In order to get “3,” it must be *taken*, leaving behind “-3.” In the same way, in order to get a star, it must *come from* the perfect balance, leaving behind its opposite vacuum.

Vacuum particles, known as “*antimatter*,” break apart systems to their greatest capacity based on the degree of vacuum properties and emit these particles, due to the relative high-pressure these particles have on *one another* outward in exactly the same, and yet opposite, way where “*normal matter*” combines systems to the greatest degree that they can based on the amount of mass that they have and emit these particles. Ordinary matter radiates large and absorbs small while antimatter radiates small and absorbs large. When time is reversed, they do the opposite and *function* as the opposite.

These particles which the vacuum particles of antimatter create become so small relative to everything that we know, even photons, that their velocity through space *approaches infinity*. As these particles, in great abundance, sweep across the cosmos in all directions, their physical flow *causes gravity*. When an object *blocks* this flow of particles towards a nearby second object, this blockage produces a noticeably non-uniform force distribution on the second object due to the flow of these particles from the first object’s direction being partially blocked. The reduced force from the side of the first object causes the second object *to move towards the first*, and vice versa. This is how gravity is caused, as a result of a balance between *infinity* and *nothing*.

This raises the question: *When two things are equal, are they really two things?*

Two suggests separate and distinct. Equality means that they are the same. In other words, that they are *one*. To put it succinctly, this means that from an analytical perspective, *all is one and one is all*. This most *sharpened* reduction of all observations in physics to being the result of *all being one* is of paramount importance and will be revisited soon.

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# CHAPTER 5

## Further Analysis

### A. Introduction

In the verification of a scientific model, it is necessary to widely explain a vast array of phenomena. Given the amount of data that we have accumulated across history, this is a very rigorous process. As the *gist* of the model has been explained hitherto, this chapter is supplemental material to demonstrate the wide range of observations that the model sheds light onto. Explanations are herein intended to be short and to the point where possible. As the universe is *infinite*, there is always *more* that can be considered and this is not meant to be an *exhaustive* list of answers to all possible questions. No one individual could possibly be expected to consider all known observations that each person feels pertinent. Due to the nature of the model, being philosophical and deductive and using careful logic and reason, where it is capable of providing simple answers to many unanswered questions in science, it would be an *undue burden* to have to provide a *complete model* that explicitly explains every single thing. Rather, because the model is simpler than all other standard models—and arguably *cannot* be simpler—the model speaks for itself in deserving open consideration by society at large to determine these explicit explanations.

Due to the logic that, “*if it is true, then it is true,*” a vast array of observations have been carefully analyzed to consider if and how they fit into the model. Important to note, in instances where it is not immediately apparent, *this does not mean it is not the case*. In the same way as how the speed of light was recognized to not be instantaneous by holding confidence in Newton’s Laws, this model cannot *immediately* answer everything without thought; the question becomes *how*. At times, that answer is not immediately apparent.

However, what it does provide is a *framework* by which all observations can be carefully considered. The order in which questions

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are answered is not always the order in which they are asked. As the model has been generally described, we will now further analyze observations in light of the model.

## B. The Ether

In 1887, Albert Michelson and Edward Morley performed an experiment<sup>30</sup> as shown in Figure 30 in an attempt to detect variations in light traveling through the “*ether*,” the name assigned to unseen particles that fill the vacuum of empty space. This experiment’s negative results are held as critical evidence that the ether does not exist, supposedly *conclusive* proof.

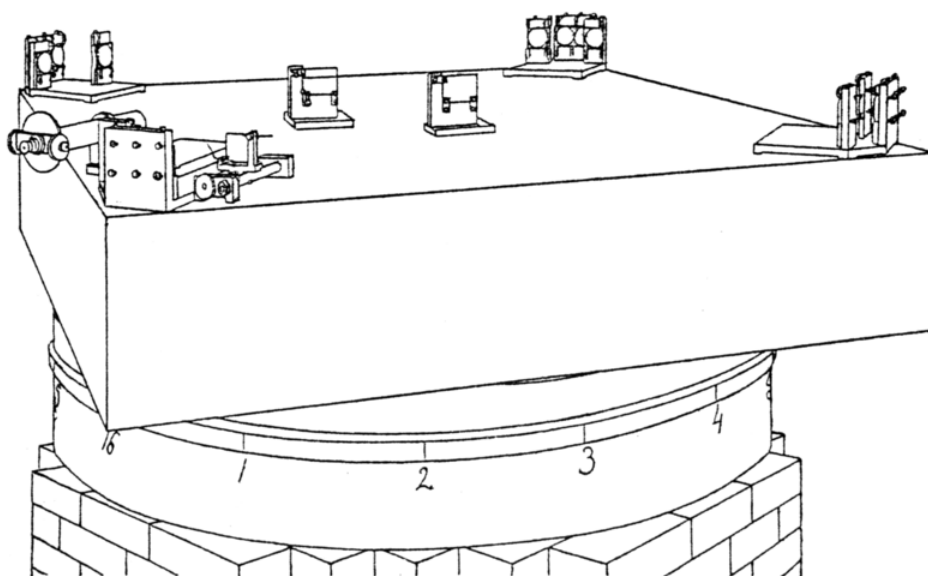


Figure 30: Michelson-Morley Experiment setup.

In this experiment, light was transmitted from a laser through beam splitters which separated the light into perpendicular directions. Then, the light was reflected by a mirror and came back to the source area where it was detected to determine if there was a *delay* caused by the presence of the ether’s flow in a particular direction along the surface of the Earth which would be observable as *interference*. This experiment produced a *null* result and has been referenced as a proof that the ether does not exist.

However, there are several issues regarding the experiment. Firstly, would the ether not also obey gravity? In other words, it is an assumption that the ether would flow specifically in the direction *parallel* to the Earth rather than being pulled towards the center of gravity—



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*perpendicular* to the ground. Such a perpendicular flow would influence all light traveling parallel to the ground *equally* and thereby produce no detectable influence. In fact, this is supported by the shape of Earth's electromagnetic field which extends perpendicular to the ground.

Therefore, for at least this reason the experiment did not result in detection of an ether. However, there are several examples of evidence in *favor* of the ether in science. Dark matter, the Higgs field, the electric field, the magnetic field, and all other *fields* are all examples of modern day *ether* language.

Indeed, if we look to the electromagnetic field—which *is made of part of the ether*—and ask, “*how does light behave in an electromagnetic field?*” we will find that it is *directionally-dependent*<sup>31</sup>. As stated by Pelle et al.:

*“In the presence of external crossed electric and magnetic fields,  $E$  and  $B$  respectively, the light velocity is no longer isotropic, whatever the propagation medium.”*

In other words, this experiment tells us that the velocity of light depends on the ether, as it has been shown previously that electric fields and magnetic fields are particulate in nature and are formed of part of what is effectively known as the ether.

### C. The Double-Slit Experiment

The double-slit experiment is one of the most renowned experiments in all of physics. It is also the origin experimentally of the field of quantum mechanics, having been performed first in 1805 by Thomas Young<sup>32</sup>. In a way, it is to quantum mechanics what the observation of all distant redshifted galaxies in all directions is to the “Big Bang.”

And in the same way, if the entire model finds its basis in a specific experiment, then *that* experiment explained in a simpler way draws into question every interpretation that followed. In both cases, the observations are the cornerstone upon which their respective theories are built. When the bottom is taken out from underneath something, the whole system can fall.

The experiment can be conducted with a wide range of particles. Light, electrons, atoms, and even complex molecules have been transmitted through the double-slit structure to determine what interactions are occurring. In Figure 31, electrons are depicted:

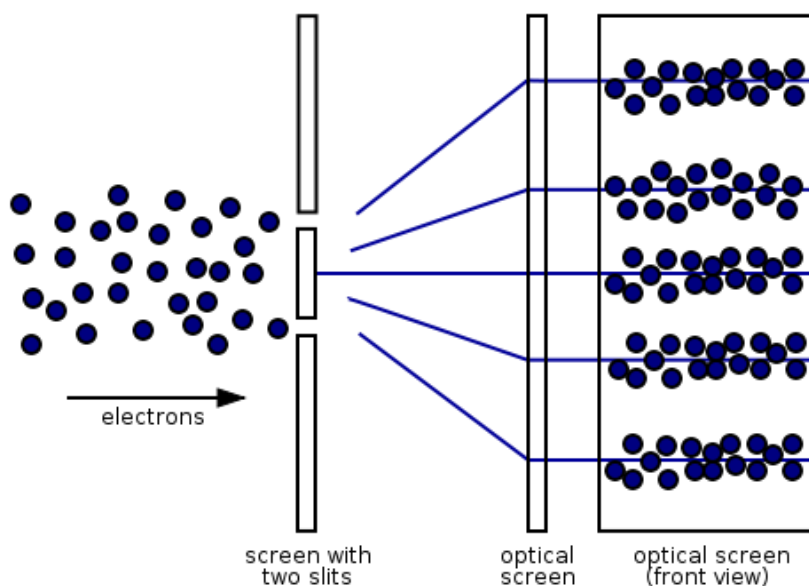


Figure 31: Double-slit experiment with electrons.

The question is, *what is causing this?*

This is known as an interference pattern, the result of two waves interfering. The proposition is that *if* the systems passing through the slits were truly particles, then they would create two distinct areas on the screen where they are observed—a *particulate* pattern—rather than produce an interference pattern.

Many experiments have been conducted, including transmitting single particles at a time through the slits<sup>33</sup>, still resulting in the same pattern.

It has therefore been concluded that everything from light all the way up through complex molecules has a wave-particle duality characteristic.

Looking at the experiment through the infinite universe model, there are several factors that have not been accounted for. In particular, the interference pattern does not just happen at any slit width. Rather, the slit has to be extremely *narrow*. Moreover, larger particles such as molecules have to be projected through the slits at lower and lower velocities in order to arrive at an interference pattern<sup>34</sup>. This combination provides a first clue.

In particular, the narrow slit means that the particles passing through the slit are physically *proximal* to the slit material. As has been the theme of this analysis, this observation is considered with respect to gravity. If light is made of particles, those particles then must pass

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physically near either wall of the slit and due to the proximity of the particles to the slit they would be capable of being gravitationally *lensed* as they pass. This is further supported by the need for higher weight particles to travel at lower velocities in order to achieve interference. Low weight particles can be lensed more easily than higher weight particles if both are moving at the same velocity and influenced by a given system. To account for this, it is necessary for the particle to physically travel slower so it is exposed to the local gravity of the slit material as it passes for a longer period of time to actually lens the particles' paths and thereby produce an interference pattern result.

Additionally, it is important to note that there are always smaller particles and our actual capacity to perform this experiment without using many particles simultaneously inadvertently, which behave as a cumulative wave, is very low. Arguably, it is *impossible* in the same way as a perfect vacuum cannot be created. A single particle cannot be isolated without bringing with it even smaller and less detectable particles that can influence observations. Moreover, single particles projected through double-slits as done in the single-photon double-slit experiment would be gravitationally lensed one at a time by positioning passing through the slit materials and would ultimately arrive, still, in an interference pattern.

This interpretation requires no counter-intuitive additions to the model, but rather uses the same basic premises of all previous interpretations to provide an explanation that is reasonable and logical.

#### **D. The Photoelectric Effect**

The photoelectric effect is defined as “*the emission of electrons or other free carriers when light is shone on a material.*” The emission of electrons by radiation requires the energy of the radiation to reach or exceed a *threshold frequency*. Below that level, no electrons are said to be emitted regardless of the light intensity or the length of time of exposure to the light.

Albert Einstein proposed that a beam of light, therefore, is not a wave but rather is a collection of discrete packets, “*photons.*” Dependent on how strongly the electron is held to the system, the photoelectric effect can require photons with energies approaching zero when electron affinity is negative<sup>35</sup>. For core electrons in elements with a high atomic number, on the other hand, the required energy can be over 1 MeV.

Again we can analyze this with the above infinite universe approach, which arrives at the argument that different wavelengths in the electromagnetic spectrum are waves made up of different masses of

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particles. Lower energy light is made up of relatively low mass particles. When we shine high energy radiation onto a surface, we are ultimately radiating the atoms of that surface with larger *mass* systems, having a higher energy density because there is more mass per volume—a higher *density*—in more energetic light.

For consideration, we can envisage a matter wave hitting the planets of the solar system. If the wave is low in density, it will not influence the planets substantially. If it is *high* in density, it could physically push the planets into different orbits. Or out of the sun's orbital *entirely*. This is effectively what is happening with the photoelectric effect. The radiation acts as a wave of particles physically *pushing* against the object. If the particles are low in mass, it acts as a gentle wind, which can only dislodge the least bound of systems. At a sufficiently high energy, the wave of light acts like a tidal wave on an electron and can be able to effectively push it out of orbit. Whether or not the strength is sufficient depends on all forces on the electron. If it is closer to the nucleus of a heavier atom, then it is more strongly bound just as gravity would explain. This is *why* electrons are able to be dislodged from atoms when light is shone on a material, and *why* there is a threshold frequency, and why the photoelectric effect behaves as it does.

## E. The Cosmic Microwave Background

Perhaps the most referenced observation of the Big Bang model, even beyond redshift, is the cosmic microwave background<sup>36</sup>. This is considered to be one of the “pillars” of the Big Bang, though it is not at the foundation but is *supplemental* to redshift. The two observations did not occur simultaneously and lead to the model. Rather, redshift occurred and the model was made and then the cosmic microwave background was later detected and taken as a pillar. As mentioned with the double-slit experiment, one observation alone stands at the foundation of each model. The CMB, as shown in Figure 32 below, is considered important to the Big Bang, however, because it is said to show the *remnants of the Big Bang*.

While the Big Bang model has an extremely captivating explanation for this particular observation, it does not stand out as so important in the infinite universe model. As discussed, the universe is infinite, and therefore there are layer upon layer of ever smaller masses filling all of space acting as the *ether*. The CMB is ultimately the baseline radiation from our surroundings that we are able to detect. It is extremely uniform, but this is what we would expect to see on large scales. *Balance*. Just because there is a generally low energy, generally uniform

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observation on the large-scale does not mean there was an explosion that specifically produced the entire universe and we are looking at the remnants of that explosion. The leap is too far and built on assumptions. Everything we see shows signs of uniformity, of balance. And so, too, does the CMB.

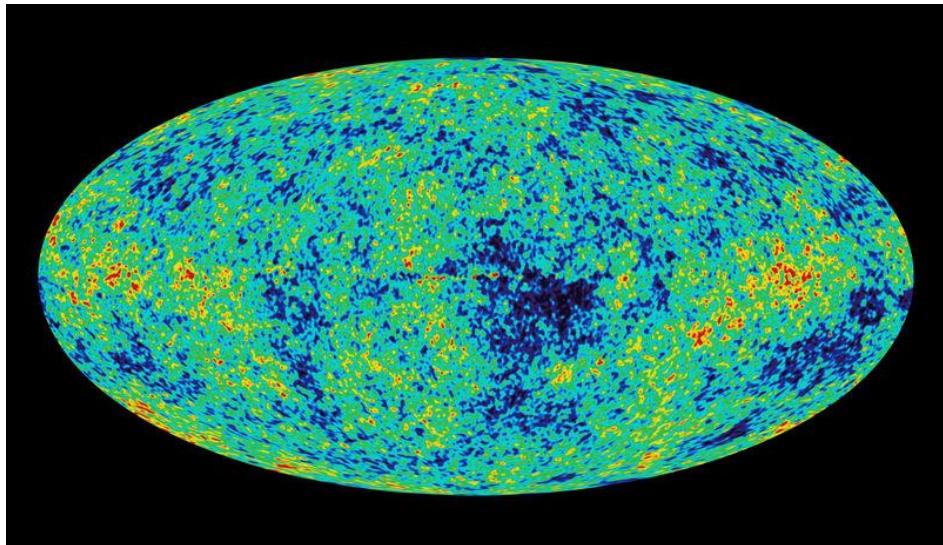


Figure 32: The Cosmic Microwave Background.

## F. Dark Energy

While previously “*expansion of space*” was shown to be arguably false, we stepped away from “*dark energy*” for a moment. Just as other observations such as the CMB *build* on previous observations, and thereby *require* the interpretation of the previous observations in order to fit the model, in the same way is dark energy disproven when expansion of space is disproven. However, the infinite universe model can be applied to the observation just the same.

As was previously discussed, we observe increasing redshift per distance in all directions. This is recognizably correlated and has come to be known “*Hubble’s Law*.” The correlation is considered linear and has been used to explain “*expansion of space*,” and the detected acceleration in the rate of redshift per distance over large distances<sup>37</sup> is claimed to be caused by “*dark energy*.”

The correlation of Hubble’s Law was explained with the infinite universe model using gravitational redshift and a Figure-8 orbital structure. The nature of the Figure-8 orbital motion of light makes the particular case of the accelerating rate of redshift rather complex and

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nuanced because it requires a combination of gravitational redshift and gravitational lensing. When light is gravitationally redshifted, it becomes lower in *density*. As this occurs, these particles become smaller and travel faster.

In a prism, when white light passes through a prism it is separated where red light is the least *bent* by the prism's effects on visible light. This is directly because the particles of red light travel sufficiently faster so as to pass the interface more quickly and so they are not influenced by the *local gravity*, alike to the double-slit experiment, as much as the heavier but slower higher energy violet light.

In a similar way, when the light is redshifted across large distances, it drops in energy substantially enough where the actual Figure-8 structure is modified. This is where it gets trickiest. There is something about the change in the overall size of the Figure-8 that leads to increasing rate of redshift per distance. The best analysis for this would be to look at how an electromagnetic field is formed because the flow pattern of the light would be the same, as shown in Figure 33:

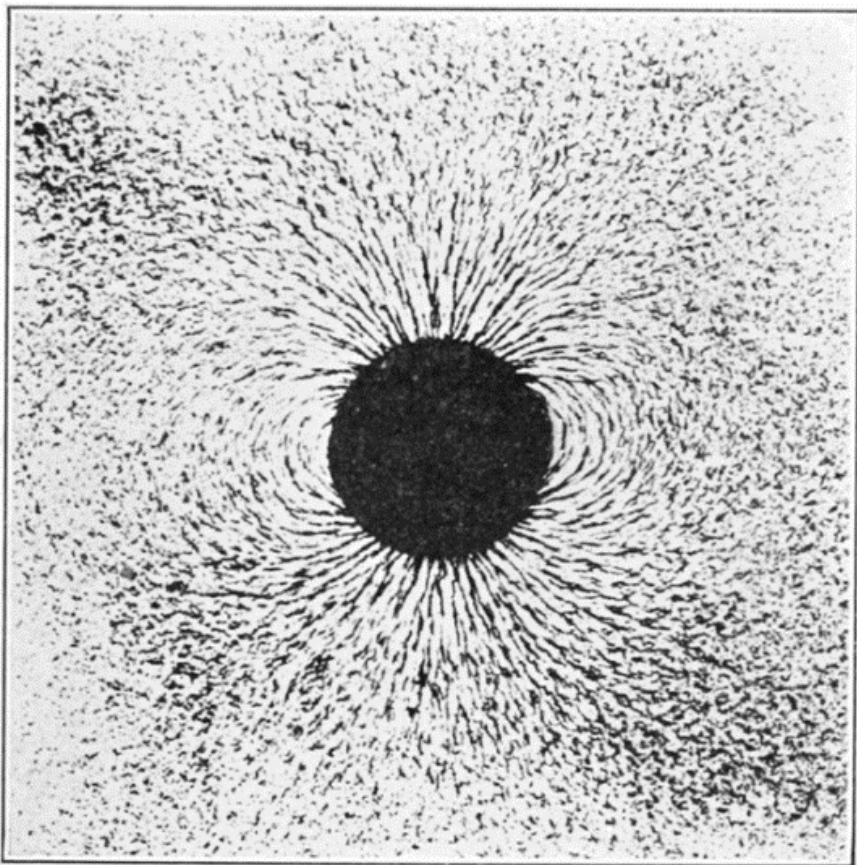


Figure 33: Force flow of a magnetized steel sphere.

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As light redshifts, it travels radially outward further due to the lesser capacity of it being lensed at lower energies. However, it also has an increase in the distance of the *orbital motion*, which is the portion of the motion of the light in the Figure-8 orbital where additive redshift per distance actually *arises*. Radial motion *cancels* with itself. It is firstly proposed that this is sufficient to cause greater overall redshift per distance even at lower overall gravitational forces during each larger Figure-8 orbital. Also, the environment is lower energetically further from the central mass. Precisely how this combination causes redshift per distance to accelerate rather than to decelerate appears to be a result of how these variables interact with one another.

In the past, I would have said this acceleration was caused by the radial distance *decreasing* as it redshifts, causing the light to orbit *closer and closer*. This interpretation would lead to an increasing gravitational force throughout the orbital, which seemingly would increase the rate of redshift per distance. However, this was prior to holding the prism's results to be evidence it would be the opposite. Higher redshifts would make the light be lensed *less*, not more. At that time, I thought the speed of light was constant. This was before I realized how gravity was caused by particles traveling at a velocity approaching infinite.

In short, the observation involves *many* systems functioning over a very *long* period of *time* and over extremely *large* distances. Regarding this observation, I presently can only with good confidence propose that the accelerating rate of redshift per distance at large distances results from a change to the environment due to the orbital distance of the light being at a greater distance from the central mass and from an increase in distance of the orbital motion that offsets the lower gravitational influence. At greater distances away, there is also a lower energy density. As a result, the light could be less *balanced* with the environment and thereby be stripped of more energy by a lower energy density region than at smaller radial distances from the central object where there are relatively higher energy densities, causing a detectable overall increase in the rate of redshift per distance.

## **G. Plate Tectonics and the Expanding Earth**

For over a century, the hypothesis that the Earth has undergone physical expansion and grown from a previously smaller radius has been one of the most well-known proposals for the formation of the continents as we see them today in what has been known as the Expanding Earth Theory or the Growing Earth Theory<sup>38</sup>. This is largely due to the apparent ability for all the continents of Earth to generally fit together rather nicely,

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without oceans, on a smaller globe.

More recently, this model has been largely abandoned by the scientific community in favor of plate tectonics with such explanations as the Earth is not *presently* expanding<sup>39</sup>. The present theory of plate tectonics suggests that the continents are located on plates which physically slide around relative to one another and across millions of years they have moved from a single land mass where all the continents were together, known as Pangaea, to their current positions. The critical difference with Pangaea and the Expanding Earth model is that Pangaea was said to still have a single, large ocean.

If we think about this from an intuitive standpoint, the concept that the Earth would form with one single ocean that was opposite to one single landmass composed of several plates is rather far-fetched—a giant *island* of all continents. Gravity suggests there would be a more *distributed* formation. On the other hand, if the land masses do fit together into a single, smaller surface of a globe *without* the oceans, then regardless of our lack of understanding for *how* the Earth changed to its present state, this is strong evidence that this was the case.

Science is about *answers*. If we do not have an answer for a question within a model based in logic and reason, people will develop new explanations entirely for the observed phenomena. This has occurred several times, as this book has discussed, in models of the universe which have dismissed a careful, logical and reasonable approach due to lack of having an answer within the model *now*.

In the case of the Expanding Earth, the problem that arose from the model was the question of *how* did the Earth expand? Proponents of the Expanding Earth looked at the *evidence* that it expanded, which does in fact exist, and stood behind the interpretation that the continents were once a single landmass with no oceans on a smaller globe. What they could not answer, though, was *how* the Earth had grown. What was the *mechanism*?

As a result, alternative proposals were made where the model did not include this feature. Plate tectonics supplanted the Expanding Earth model and has become all but labeled as fact. Still recognized as a theory, in the same way as the Big Bang, General Relativity, and Quantum Mechanics are each labeled as “theory,” actions show them to be believed with absolute certainty; so, too, is the theory of Plate Tectonics.

The strongest argument that plate tectonics had against the expanding Earth theory was literally *how*? This is not a disproof, and the evidence in favor of the Expanding Earth model still is just as thorough as Plate Tectonics. With that in mind, the infinite universe model explains how a planet expands.

The Earth’s electromagnetic field is composed of particles which



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physically travel in generally Figure-8 shaped orbitals. This is strongly influenced by the physical rotation of the planet. These particles all pass through the center of gravity of the Earth. As a result, the center becomes an area of high density of these particles where they are more likely to interact and become larger systems through fusion. Atoms are created as a result of this process.

If the system is already in equilibrium, it will remain essentially the same. However, if the system went through a change, such as going from non-rotating (alike to Venus) to rotating (like Earth), then the newly formed electromagnetic field due to the rotation will lead to creation of mass that is greater than the loss of mass and so the body would grow in mass, creating particularly lower molecular weight particles. As the rotation would also bulge the equator of the body, it would produce stress on the single land-mass that would be exacerbated by the increasing pressure due to the buildup of newly formed atoms. Lighter atoms, such as hydrogen and oxygen, would be more likely to form than heavier atoms and then, due to the lower density of water, travel outward towards the crust.

Over time, when the pressure buildup was too large and the stress on the body reached a critical level, the crust would rupture and crack and release particles, especially lighter elements, to the exterior of the planet. As a result, water built up would be released to the surface of the planet as the continents were pushed apart to a new stable volume of the body of Earth. This would lead to the Earth being in a balance with the production of mass by its electromagnetic field over time, as it would be larger and its released mass would be more closely equivalent to its produced mass so that balance returned and expansion slowed to a crawl as it is seen today.

This process would also lead to a substantially younger oceanic crustal age than the rest of the surface of the planet, which is what we observe. To get around this anomaly, plate tectonics claims all the evidence of the crustal age being the same as the age of the continental plates is “*hidden*” because the materials recycle into the Earth where the oceanic crust subducts under the continental plates. Therefore, according to plate tectonics, we only see *new* oceanic crust.

Moreover, the question where the oceans of Earth *came from* is just as anomalous. With plate tectonics, it is necessary to ultimately assume they have generally just *been there* with no real explanation for how. Comets and other proposals exist<sup>40,41</sup>, but do not provide a mechanism for how such a *large amount* of water would be present on Earth.

The electromagnetic field of Earth *produced the water* by the convergence of flows of particles, leading to pressure buildup within the

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planet until it ruptured, breaking the continents apart and producing vast oceans. This explanation gives an answer not only to *how* the Earth expanded, but also where water came from and why the Earth is not presently expanding. As it matches what we see with our eyes—the general puzzle-piece fitting capacity of the continents into a smaller globe—it means that this is a significant portion of the process for how the Earth became as it is today.

## **H. Conclusion**

This chapter was meant as a short introduction to the explanations of several critical observations within the confines of the model. While there are countless observations to be taken into consideration, this process is on-going and the question becomes: *at what point is a new, opposing model taken seriously in science?* How much sheer evidence needs to be presented along with logic and reason before the work of an individual can compete with the work of many across decades? Will this book be sufficient? Only time will tell.

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# CHAPTER 6

## Applications in Society

### A. Physics of Consciousness

The model disclosed herein is directly applicable to consciousness. As has been eluded to at several points throughout this text, there are connections between how conscious beings interact and how bodies in the cosmos interact. In fact, they are more than connections—the *same* mechanisms directly apply. The better we understand consciousness, the more society can change to a state of *awareness*.

This book functions as a *transmitter* of information. You cannot tell this book what it says; it is just a book of words. What you can do is to read it. In this way, you choose to function as a *receiver*. In all communications, there is no way to send a message without these two functions. We are all capable of both, for we *are* both, but if two people both are functioning as *transmitters*—for example, in an argument—then they are as two like-poles of a magnet, repelling one another. When two people are functionally opposites—for example, in a conventional student-teacher relationship—then they function much more like two opposing poles of a magnet, bringing attraction.

I say “*function much more like*” because, well, it is complicated. What perspective does the student have? Are they *open to receive*? What about the teacher? Are *they* open to receive? Or are the students combative, making a stand against something they disagree with on some fundamental level that manifests as them not *really* listening? Or is the teacher close-minded and not hearing the student’s perspective? If we look through a typical array of classroom students, some are eager learners who fully accept their environment and absorb the information presented. Others do not attend class simply because they choose not to. This range is a result of the way that people react to a given stimulus, and sheds light onto human nature.

When something is flawed by nature, it can still succeed at accomplishing many things. School, like many other things we do, goes

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against the most important aspect of reality—*freedom*.

Students are not really given a true *choice*. You *must* do this. It is not a *two-way street*. Some do not mind this aspect of school and go and learn and become well-educated in the topics which the schooling transmits to them, as open receivers. Others make a stand against this and rebel in several ways. This rebellion comes at their expense, as society is designed in a way where if you do not comply, then you will suffer. In other words, your grades will suffer, your life will become more difficult, and you will struggle as a result. However, what school does not account for is the knowledge that comes from the school of *life*. We are much *more* than our resumes.

The question that arises here is, *is it right to comply with something which is forced?* If we have no way of having *perceived* value in the eyes of others except to jump through the hoops society puts before us, forcing individuals not at gunpoint but by the sheer weight of the system, then is this the fundamentally *right* decision to make? Or is it right to stand *against* the forcefulness, and struggle greatly and seemingly unnecessarily as a result? The struggle would suggest it is wrong, as if we are *rewarded* for making the “right” decision by becoming respected members of society who specifically follow the rules put forth *by* society.

This is an example of the physics of consciousness because when we *go with the flow*, our experiences are generally *easier* than when we go *against* the flow. The river of the flow of society has *actual momentum*, as we flow in a general direction like a wave function. If we try to go in the other direction, then it is the same as trying to walk backwards through a river. With the entire society’s momentum in one direction, like a deep and wide river, this can become so overwhelming that *all we can do* is to go with the flow, for we are pulled along with it.

However, like a mass in the cosmos, when we feed our *minds*, the mass of our consciousness grows but a given problem *does not change*. It remains generally the *same* problem. If the problem is the flow of society where it is a deep and wide river, unable to be opposed, then the solution is to *outgrow it*. As we learn something, our consciousness grows like going through the atoms of the periodic table. If all we do is feed a single subject, that can become unstable like a radioactive element. In order to outgrow our problems, it is necessary, then, to feed a *larger* system by learning many *different* subjects. In this way, we can grow our conscious awareness so vastly that it acts like a planet next to an atom. Or like a star. Or a black hole. Or beyond. The more that we pull into our conscious awareness and feed energy to it by learning about things, the more massive and dense our minds become.

As a result, what was once a rushing river—wide and deep—becomes a stream, then becoming an unnoticed trickle because we have

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*grown*. And then the flow we face no longer produces resistance.

Moreover, the growth has other effects. We each can be envisioned as a mass in the mental cosmos of consciousness. If our mass is small, in a high energy environment, then we act as low-pressure systems which absorb from the environment and attract high-pressure systems. Like a baby being admired by all. Adults and children have a certain pull to one another because of this, where there is an imbalance so great that people consciously attract.

Children readily absorb, and adults radiate. Age brings with it a certain stubbornness and immovable aspect to human consciousness. This is not just because people are stubborn. Rather, as we experience life, the mass and density of our mental consciousness *grows* and becomes more and more difficult for others to *move*. Without at least getting first *close to them consciously* through actual *understanding*. Seeing someone's perspective is akin to getting close to their mental consciousness sufficiently. From a physics standpoint, this is a positional relationship. When we are consciously close to someone, we *feel them* like gravity. We are attracted to or repulsed by them like magnets. If we are distant consciously, we are literally not *close enough* in the mental universe to observe *interaction*. And how we interact at close distances depends on our relative mass and density. Like two stars or a star and a planet or a star and the particles of its electromagnetic field, how they move relative to one another depends on their mass *ratio*.

However, when consciousness grows—like a mass in the cosmos—our capacity to *influence* our surroundings at larger distances also grows. People whom we could not impact their position before in the mental cosmos are then moved. This is a result of a high-energy environment for our mind.

Notably, all is equal. As discussed, zero *is* infinity. There is a perfect *balance* between all things as precisely *equals*. We are all *equals*. Therefore, it is important for us to recognize that we are *all* teachers *and* students. We are *all* transmitters *and* receivers. No one is *just* a transmitter and no one is *just* a receiver. Society at large tends to distinguish between who is teacher and who is student. Children are undoubtedly considered the *students*.

This is *half of the picture*, and does not appreciate the *other half*. The other half being most apparent in children, who have yet to absorb much to teach us about the world around us, and yet who know more about the world around us than we can ever dream. A child's innocence, imagination, and capacity to fully express and be their true selves *without any limitations* is perhaps the greatest lesson ever taught by an individual; and, as all of us were children, and are, it is taught by *each and every one of us*. When we learn about how the world works, we are taught

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hypothesized *limitations*. As we presently function, we actively teach one another of our limitedness, especially through silence or otherwise, and so this innate knowledge of our potential is left in our childhoods. As a society, we do not value the actual, tangible *wisdom* of children and so we teach people of a *hierarchal* structure of leadership, where the leaders are *transmitters* and the rest are *receivers*. In reality, all are equals and we each have something to say and something to learn.

“Say” is a word that implies the message to be spoken. The perception that only spoken word, or written word, is a means of communication limits the avenues through which we are open to receive. *Body language, action*, and most generally *every single thing that we do* carries with it a message for all who are open to listen, including *the individual themselves*. Even *non-action* is an action. For example, when people choose to change society through *action*, their *actions* speak for them. They also speak, and also write, and also use many forms of communication to transmit their message. However, their actions speak the truest message. In the same way, their *non-actions* speak for them.

A good example of this is the United States. “*The Land of the Free.*” Is it? As someone who lives within the borders of the United States, I can look back at my life and examine the events. One thing I can say with certainty never occurred: *I never agreed to this*. At no point in my life was I ever given a complete disclosure on the purpose, objective, and role of the government, and more importantly never given a *basis* for *why* it is able to rule over my decisions, take my money, impose its will on me and mandate my actions within the confines of its expectations while hiding its actions. I cannot simply argue that my freedom supersedes any court’s judgment and that I *opt out* of the system while exercising my *actual* freedom to remain where I live without being imposed upon. *Am I free?* We can use labels all we want. The *actions* which we take *speak the truth*.

This goes far beyond simple labels. Taxation is theft by another name. Moreover, it is inefficient use of energy. It literally leeches from society, taking from people who cannot afford it and thinning the weak points in the house of society even further. Like a house whose foundational bricks—where the most *stress* is—are actively thinned and the materials placed on the top of the structure to make it stand taller, where it becomes more top-heavy, when taxation takes from people against their will it causes undue stress on the system at large. Like an engine where the energy is pointlessly converted several times before its use, where inefficiencies are rampant, taxation takes from individuals who *invested the energy to make the energy*, and simply throws it around at whatever it sees fit because, well, *there’s so much of it*. What happens to a system when it uses energy *and* its environment takes energy from it? It

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shrinks.

When vast sums of energy, produced by millions upon millions of people, are directed by only a few individuals, then those making the decisions *put no energy* into the actual creation and so they inherently are inefficient in decision making. They cannot possibly give as much *thought* into how to use such vast sums of money as all the individuals cumulatively would have if it was not taken from them.

This makes the system of society slow down, producing *symptoms* which are used as further evidence for the need of such a system. The feedback loop of a system which creates problems, then grows in an attempt to correct those problems and thereby creates more problems, and repetitively follows this process is *inevitably* going to cause collapse. It cannot go on forever.

This is because a government system is, by design, based on only part of all things. Therefore, it has a ceiling to how much it can grow. When it grows too large, it again follows the same mechanics as the periodic table of elements. Larger and larger systems are initially stable and show no substantial signs of their inevitable instability, but as they continue to grow to their peak they become *highly unstable*. More and more laws and regulations are put in place. Such guidelines act as *resistors* in the electronic system of *society*. When every turn there is a resistor present, *the flow of energy ceases*.

No one would design electronics where there are resistors at every turn, preventing flows of energy. However, the way we operate our society is built in precisely this way. Over time, it squeezes on society until movement of energy is prevented so substantially that system failure is observable to such a high degree that it is indisputable.

Leading up to it, there are only more energetic signs that start small and subtle until they become large and obvious. As a system falls, it becomes more out of balance with its environment, like a low-pressure system, and so it extracts energy from its surroundings. As the way that we function as a society falters, it *extracts energy* from more and more individuals as it falls to feed its very survival. This manifests in increased taxes and regulations and imbalance at large.

Freedom only exists in one form, and limitations thereon in any way literally go against the objective. The question of how to solve these pressing issues in society requires *awareness* to how the universe functions.

## **B. The Philosophy of Chaos Theory**

One of the most important discoveries in scientific history is that of Chaos Theory. The theory comes from the recognition that *small*

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*differences* in the *initial* conditions when a system is analyzed yield *divergent* outcomes for dynamic systems, which makes long-term prediction of their behavior seemingly impossible.

This is summarized by Edward Lorenz<sup>42</sup> as:

*“Chaos: When the present determines the future, but the approximate present does not approximately determine the future.”*

One of the most common examples of this is found in weather modeling. While we *can* accurately model weather, *to a degree*, within short timespans especially, with increasing time from the original prediction comes increasing error. This means much *more* than that we cannot accurately model weather systems for extended periods of time.

The most immediate application of chaos theory is *our lives*. When we peer into the future and envision events taking place, we are forming an approximate prediction of what the outcome will be. Just like with weather, we *can* accurately predict the future *to a degree*. However, the degree to which we can do so depends on the degree of *awareness* of variables. In other words, if the variables are largely accounted for, then *the degree of approximation* is low and so the future is essentially predictable.

An example would be that I predicted I would write this sentence in some general form before doing so as an example. The exact wording was somewhat present in my head but not to the degree where every word was known, and so it was in some ways still an approximation, but it was a very accurate prediction. The reason for this is because I was well informed of what actions I was going to take, as they were my own *and* they were in the *immediate* future. Their variance from my prediction was small because there was very little time for the *environment* to change and I was highly aware of the variables.

What this tells us is that the more awareness we have, the higher the degree of accuracy of our predictions. However, it also tells us that the less aware we are, the lower our degree of accuracy with our predictions. For example, if someone were to be tried in court for an individual action or string of actions in their lives, the judge does not know the full extent of the person's life which produced the action. Therefore, the judge is *inherently* and *inevitably* envisioning an *approximate present*. The purpose of judgment, as it is intended, is to bring *justice*. *Order*. *Balance*. And so, in order for a judgment to be *just*, it must be one which results in the outcome of bringing balance to the situation.

However, given the approximation of the ruling, the judge may decide that in order to bring order, it is necessary to imprison the individual for a span of years. This is predictive *in nature*. If it is not



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treated as such, then it is purely punishment with no empathy or compassion for the *human being*, which is flawed to the core. I cannot say what I will be doing in several years with any specificity or certainty. I can certainly hypothesize and suppose in ways that I am strongly compelled to believe, as the one who best knows myself, but many things can happen. It is like attempting to predict the weather further in advance. It enters the realm of *generalizations*—seasonal weather. Will even this hold true indefinitely? At some point, our approximations no longer match our reality. When it comes to judging individuals for their actions, it is the same way. It *may* result in some intended change, but not *necessarily*. And *at what cost*?

As people who have not lived each other's lives, we are not fit to condemn one another. We do not even *know* one another. Each individual is the only one who has led their life. *They* are the most *informed* on all the variables, and thereby the most able to make a *prediction* of their future that can stand the tests of time and approximations. When we judge one another individually, balance does not come.

Indeed, one of the most intuitive axioms that we learn as children can easily be applied to dispute the entire role of governance by others: *Two wrongs do not make a right*.

If an individual commits something that is wrong, how does limiting their freedoms, taking money, property, and years of their life if not the rest of their life somehow bring justice? It is as if a robber has played the role of judge and chosen to steal from the wrong-doers to bring order. The robber does not bring order, only wealth to themselves at the expense of others of their choosing. And so the system becomes *more* out of *balance*, manifesting in more chaotic storms.

And so we find ourselves at a crossroads.

### **C. The Innovation Paradigm Shift Singularity**

Across history, innovations have reshaped society. Inventions such as the printing press, engines, electricity, radios, telephones, computers, and the internet have had major impacts on global scales. These, coupled with all forms of innovation, have moved our collective body to where we find ourselves today. This is represented in Figure 34 below as growth over time.

With each innovation comes a peak of growth that can occur with it, like a change to environment to one of higher energy density. In the earlier phases, these innovations were rarer and had less impact on the overall shape of society. As time passed, their capacity to reshape the world we live in became so large that the state of society has evolved

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distinguishably with several innovations and the rate by which they came has increased so time between them grows shorter and shorter.

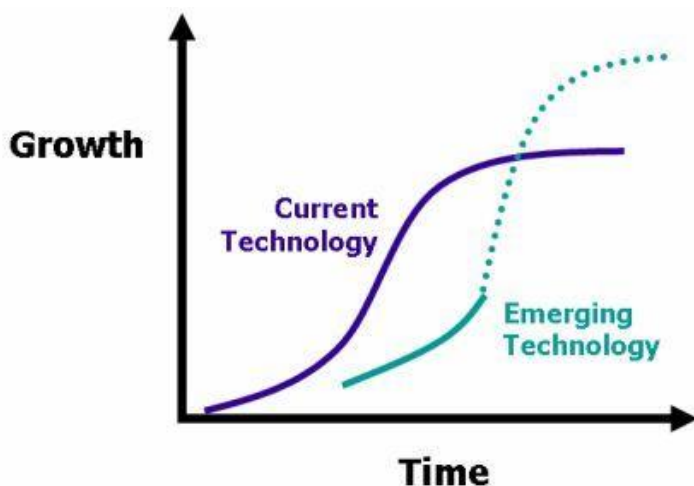


Figure 34: Innovation paradigm shift life cycle.

For example, the printing press allowed for rapid dissemination of information, and was a huge step forward for society. However, it did not provide means for the structure of society to be so changed that the way people lived their day-to-day lives drastically was modified. Functionally, people lived similar lives before and after the printing press. At least relative to larger changes such as the invention of the engine and automobile. These began to impact people's lives substantially. Not only could they receive information more easily due to the printing press, but the automobile assisted in providing the capacity for people and cargo of all varieties to be transported rapidly.

Next to computers and the internet, though, automobiles still did not transform the day-to-day life of people *that* substantially. With computers, a whole array of jobs existed that did not prior. People's day-to-day life became far more sedentary and differentiated from lives before than the automobile's effects had. Even before cars, people moved around. The life of the average person was much more similar before and after the car than it was prior to computers and the internet. Of course, these are all hugely impactful innovations in their own rights, and it is the combination of each *together* that lays the framework for new innovations to occur.

However, with each innovation, the growth is more and more. This appears to bring with it an intrinsic problem that the time before decay occurs is growing shorter and shorter. This *shortening* of paradigm shifts is thought of as the *approaching singularity*; when the time between

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paradigm shifts approaches zero. John von Neumann stated:

*“The ever accelerating progress of technology...gives the appearance of approaching some essential singularity in the history of the race beyond which human affairs, as we know them, could not continue.”*

As society grows, it requires increasing energy *density* to grow. As things are presently going, society is on a crash course for some inevitable paradigm shift *singularity*—a point in time when things must change. What happens next?

If innovation slows, *society* slows. The growth of society would peak and then begin to—slowly at first, then rapidly—descend. In other words, society appears on an inevitable crash course for collapsing.

The question regarding this issue is: *How do we avoid this collapse?* After all, no one *wants* to struggle. Everyone *wants* to be free to do as they please. If society crumbles around us, what will happen to our *freedoms*?

Firstly, this collapse *is* avoidable. We cannot stop it, however, if we do not *understand* it. Particularly, if we do not understand the underlying mechanisms at play in the complex system of society’s motions.

As has been discussed several times, the same principles of the periodic table can be related to what is happening in society. As innovation occurs, the *mass of society* physically grows. In its earlier stages, it is low in mass and so growth does not create any noticeable instability in the society as it functions. With each innovation comes more growth, and so society *moves upward through the periodic table*, becoming larger and larger “*elements*.” Over time, society comes to enter the *realm of radioactive elements*. These have extremely low half-lives, some being unable to exist in experimentation for more than a fraction of a second.

And yet planets exist. And stars. And beyond. *How could this be?* When a single atom cannot reach the mass of a planet, what makes a *planet* so capable?

The answer is that the planet is not a single atom, but rather is a system composed of many atoms. With each innovation comes a higher energy density environment and our society functions alike to an atomic mass moving up through the periodic table as a result. Each new innovation causes growth, leading us to approach the *paradigm shift singularity*, which is where the radioactive state of society *manifests*. This is even *reflected* in the present nuclear *age*.

Therefore, the solution is simple. Like the atoms of Earth, we must merge into a single system. Though we function as a society at

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large, we each lead individual lives with each of our personal alignments and priorities. Like many atoms near enough to one another we interact, at times joining with one another and at other times pushing apart from one another dependent on how our *fields* interact. However, we are not yet close enough for us to all be part of a single, cohesive unit. In a way, we are witnessing the birth of a planet.

Or of a star, where the energy brought with innovation acts as the “*stellar nursery*.” In interstellar space, clouds of atoms have come together into conglomerations, dense regions, which then *come together* and form stars<sup>43</sup>. We are each like the atoms, forming together into the conglomerations which attract and repel one another. Each are members of the conglomerations of each nation, of each religion, of each belief, of each *idea*, just as they are individuals themselves. These groups can either attract one another or repel. For example, “*friendly*” nations are attractive to one another while “*enemy*” nations repel one another. The same can be said of belief systems. As these conglomerations grow, just like a star being born, regions become sufficiently *dense* so as to draw in surroundings and conclude in producing a single, cohesive unit.

When this occurs, where we are a single cohesive unit as a society, then we will escape the paradigm shift singularity because we will *evolve* to the next *level*. We become like the hydrogen atom once more of the next *octave*. Stability returns and a long-term balance in society results.

This transformation process requires *energy*. Energy can come from various sources, but each is limited in its own way. Car engines cannot bring peace, for example. They can only do what they are capable of from an energetic, transformative standpoint. This is because of how *activation energy* functions.

#### **D. Activation Energy**

There are countless parallels between how the physical universe functions and how consciousness functions because they operate *identically*. In chemistry, activation energy is the minimum amount of energy which must be available to a chemical system with potential reactants to result in a chemical reaction. For example, hydrogen and oxygen gas can coexist without reaction, but when energy is input—a *flame*—then the reaction proceeds.

A chemical reaction itself can be either *endothermic*, where the reaction proceeds with the *absorption* of heat or it can be *exothermic*, where the reaction proceeds with the *release* of heat. In both cases, the system remains at a given state *until* sufficient energy is input so as to cause the reaction to proceed; this is the activation energy.

In an endothermic reaction, the energy of the original reactants is

constant until it is increased to a sufficient degree by an input of energy where the barrier of resistance is overcome and the reaction proceeds, producing a new, *higher* energy state due to the *absorption* of heat, as shown in Figure 35:

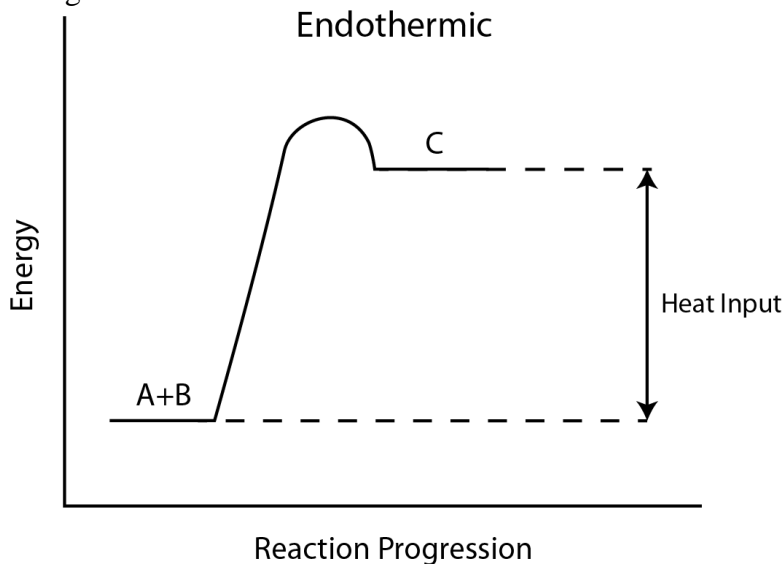


Figure 35: Example of an endothermic reaction.

In an exothermic reaction, the energy of the original reactants is constant until it is increased to a sufficient degree where the barrier of resistance is overcome and the reaction proceeds, producing a new, *lower* energy state due to the *release* of heat, as shown in Figure 36:

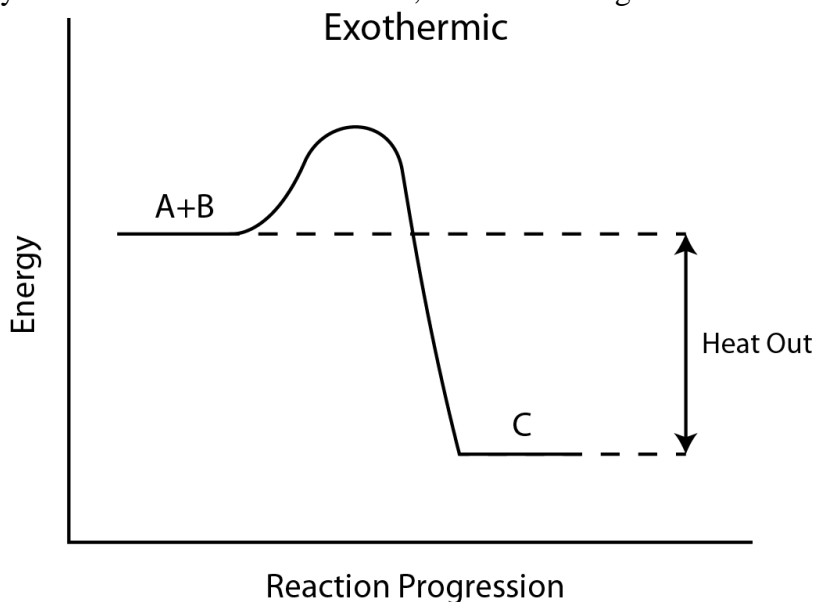


Figure 36: Example of an exothermic reaction.

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These same principles can be applied to how consciousness functions by observing that we, ourselves, require a sufficient *activation energy* in order to undergo a change of state. This *reaction* proceeds *only* when sufficient energy is input.

For example, if someone chooses to learn a new language and does so for a day or three, they have begun to input energy into that specific area of their awareness. However, if the *activation energy* is not input, then the reaction will not proceed and instead they will fall *back* to their original state over time, just as a reaction would.

When sufficient energy *is* input, then they will break through the barrier of resistance and enter a new steady-state. This requires *more* energy than the steady-state itself, but the overall outcome of learning a language begins to manifest. This does not happen once, but rather repetitively as new states are reached. This would be an example of an *endothermic* reaction.

Exothermic reactions can occur when we do things that are not beneficial in the long term. For example, when we invest energy into enforcing laws that restrict others, in the short term we see benefits—jailing someone who was a nuisance to society is beneficial in the short-term. However, in the long-term, when we jail or punish more and more people and expand the reasons for doing it, society is on the road to collapse. Initially, it will have short-term gains that will make the society more energetic, but in the long-term if it does not relent then the *exothermic* reaction will proceed and society at large will fall to a *lower* steady-state. In other words, in an exothermic reaction, as energy is invested the total energy of the system *increases*. *Until it doesn't*.

In a way, these two forms of reactions act similarly to a stairway. If we walk *up* stairs, it is more difficult than going *down* stairs. But if we make it up the stairs, then we can move around freely on the *next level* just as easily as we can on the previous level. We just have to *first* make it up the steps.

As a society, when we make short-term decisions, we do so at the expense of the long-term. When we make decisions for the long-term, we do so at the expense of the short-term. This is the same as taking the stairs upward. It is hard *upfront*, but then we can get to where we are going where it is *easy*. Or we can take the stairs downward, where it is easiest *upfront*, but then we need to retrace our steps and take the stairs anyway if we want to *go higher* and have *more* potential energy. This increase in potential energy gives more freedom, more happiness, more contentment, more equality, more *everything*; all of which come at the expense of *having to walk up the stairs to get there*. It is not an easy road, but it is a worthwhile one.

Fortunately for us, when we have people up the stairs, they can

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build things like harnesses to throw down and pull people up so the road becomes easier. In fact, the process is very much like a road. First, it is an untraveled path. Over time, a trail is cut through because a few individuals go that way. Then, it is expanded outward to allow for more and more people and cargo to pass. Soon, it is paved, having road signs and maps and directories of all sorts to help people get where they are going. Our journey functions in the same manner.

## E. The Meaning of Life

Imagine for a moment that you were to want to express yourself fully. To do so, you chose to tell a story, but not one limited to written word or spoken. You chose to tell it by acting it out, by writing it, by expressing it in *every manner* you possibly could. The benefit of a story is that it carries with it a message, the meaning of the story. This message is not told in a single sentence or any single *segment* of the story, but rather is the culmination of it all.

This means that the details need to be built up so as to paint the picture of the story. Jumping to the end without first explaining the details would not have the *meaning* of the story encapsulated, and so it is necessary to start from the beginning. After all, how could anyone get anything out of the story if it was any other way?

With enough details and meaning, the story is very impactful because of its *density*. It is one that is capable to literally *change lives*, if it is massive enough.

But there's one little catch. The characters in your story are able to make their own decisions. They can *think*. Because you know also of its *importance*; after all, that is what you do. And you see its value.

As the story is so encompassing, these very same characters in your story are the readers of the story as well. As a result, they *know* they are in your story. Or at least they *suspect*. And at times *deny*. But that's okay, because you know where you want the story to go. You are the storyteller, after all. And so, to tell the story, you encourage the characters towards the finale. To do this, to pull characters who make their own decisions towards the end-goal where they freely make the decision you aim for, every single detail is carefully worked, so the characters can make their own choices while still making their way back to the precise conclusion of the story at exactly the right time.

You meticulously construct the intricate details that gently guide the characters to realizations that bring them towards where you ultimately aim for the story to go, paying equal attention to all characters and details.

In precisely this place we find ourselves. We have free will to do as we choose, to think as we choose. And we are being shown that it is in

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our *personal best interest* to do what is *best for all*.

This is the *meaning* of life. In the same way as a story has a meaning, where we will interpret what it is all about, the story of life's *meaning* is to do what is best for all. All is a *lot*. It's not self, it's not family, it's not country, it's not religion, it's not race, it's not species, it's not even Earth or this present moment or any other limited portion; it's *All*. And who is All? *All is One* and *One is All*. Simply put, the most accurate and complete word to truly define what "*all*" is, who we *all* are, who *everything* is, is God. The author of the story of life.

Perhaps, when this book is over, there is a *sequel*. One that only comes out after we have each finished the first book.

## **F. The All**

God is *Infinite*. Everything is God. There is *nothing* outside of God. This *is written in the cosmos*. Through deductive reasoning in physics, it can be shown that the universe is a balance between infinity and zero. In a way, there is not really a zero or infinity because *everything is one*. This is the truest description of the nature of reality, and one which is *sharpest* and carries the most *weight and density behind it*, for it incorporates *everything*.

The root cause for why consciousness exists is not because of an arrangement of physical systems within the universe. Rather, it is because God exists. We have free will and so we can do whatever we want. However, the universe is perfectly balanced. Our actions can require the forces of change to bring them to center *if they are not centered*. If they *are* centered, *balanced*, then our actions can face no resistance and yield no adverse side-effects, like calm weather on a peaceful day. However, if imbalance exists in the system around us, then our actions are not truly *centered* because we are still riding the waves that larger components of society bring. This resistance process teaches us as flows around us influence our position in life. If we find the target, plant ourselves, hold firm, and reach for the stars in growing then we can assist to calm the troubled waters around us.

When it comes to governance by individuals, *we are not all knowing*. Our judgments may attempt to bring balance but we cannot bring balance as the universe can. Flaws are rampant in the designs of our governance, as we attempt to play God and create a highly inefficient system in the process. There is no trust and faith in God in such a system because God is not *known*.

Where we are at today globally is similar to the chain of events leading to the Declaration of Independence in the United States and the subsequent Constitution. As a result, it is necessary to revisit the



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principles of each with fundamental awareness that the universe has a system of law and order *built in* so as to use *it* instead.

## **G. The Declaration of Independence and Constitution of the Kingdom of God**

### ***Declaration of Independence***

When in the Course of human Events, it becomes necessary to dissolve the Political Bands which have been placed on one another, and to assume among All Individuals, the separate and equal Station to which the Laws of God entitle them, a decent Respect to the Opinions of All requires that they should declare the causes which impel them to the Separation.

We hold these Truths to be self-evident, that all are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty, and the Pursuit of Happiness.

*Two wrongs do not make a right.* All governance by the laws of humans fundamentally do not adhere to this axiom of truth. Therefore, in order for balance to be achieved, it is necessary to dissolve the Political Bands which are all built on the false principles that two wrongs make a right and that do not recognize the Eternal Governance of God.

### ***Constitution of the Kingdom of God***

We the constituents of the Kingdom of God, in order to form a perfect Union, establish Justice, insure Tranquility, provide for the common defense, promote the general Welfare, and secure the Blessings of God to ourselves and to our Posterity, by our God-given free will do ordain and establish this Constitution of the Kingdom of God.

### **Article I**

- 1: The Eternal legislative power of God shall be recognized.
- 2: Balance by the Will of God shall by recognized.

## **H. Voting**

In systems such as democracy, one of the most important aspects thereof is the capacity for individuals to vote on how the system is formed. However, this process is extremely flawed in design. In particular, votes occur infrequently and are relatively ineffective at making each individual's voice represented in how things are done.

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The truth is that we vote in every moment. We do it in our very actions. If we do not agree with the way things are done, yet our actions speak otherwise, then our vote is in favor of the system. Therefore, if a differing functionality of society arose in which each individual *in every moment* knowingly *voted* on the way they wanted society to function through their *actions*, then each would exercise their equal capacity to cause change towards their desired outcome.

As a result, nothing need be signed or verbally agreed to, no handshakes made or treaties written, in order for change to occur. Only voting through our *actions* is necessary.

## **I. The Cosmic Cell**

In our search for extracting energy from the environment in more efficient and environmentally friendly ways, conventional solar cells have become a predominate means for supplementing the energy needs of society. These are designed so as to use the radiation of the sun, and as a result they are fine-tuned towards the specific wavelengths of light which the sun emits in the infrared through ultraviolet spectrums.

Concentrator photovoltaic cells have shown improvements in efficiency of extraction of energy from sunlight by using a lens or reflector to focus sunlight onto a substrate. These notably allow for extraction of energy from specifically lower energy ranges in the infrared range of the electromagnetic spectrum.

All known designs of energy extraction from light are focused on the sun as the energy source. This requires aiming the solar cells at the sun, it requires the appropriate angle for best efficiency, it requires it to be daytime, it requires good weather, and it requires being nearer to the equator. Cosmic cells have no such limitations due to the wavelengths of light used.

In order to produce sufficient energy to meet global demands, it is necessary to explore alternative sources of energy. This very process requires a fundamental understanding of how the universe functions.

All observations are reducible to being the result of gravity. And even gravity, in the infinite universe, can be explained by the motions of bodies in the cosmos. The infinite universe comprises an infinite *array* of particles, all of which function the same, and it is from the most ethereal of all where the secrets of gravity emerge.

Proximal bodies in space block portions of this ethereal substance leading to imbalances in pressures of the substance on each of the bodies in the direction of the other. It is in this imbalance of pressures that the motion of all bodies in the cosmos is led to follow what we call gravity.

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While the sun illuminates the planet, it *does not hold it together*. This, instead, is done by the *ethereal substance*. The present disclosure of the Cosmic Cell is directed to a method of extracting useful energy from this ethereal substance, herein referred to as *cosmic energy*.

The following description is presented so as to enable any person skilled in the art to make and use the present invention. Modifications thereof will be readily apparent to those skilled in the art. The general principles described herein may be applied to other embodiments and applications thereof, such as to cause rotation of a magnetic material on an axis.

The present invention recognizes the capacity of extracting energy from the cosmos in all directions using the lowest energy wavelengths possible. These lower energy wavelengths are capable of penetrating the atmosphere, rain or shine, day or night, as well as buildings, electronics, and all other barriers to transmission. Due to their overall abundance, their conversion to useful electrical or mechanical energy could match the rising global energy demands.

It is important to understand the nature of light to implement the cosmic cell design. This is as simple as looking at a prism, as seen in Figure 37:

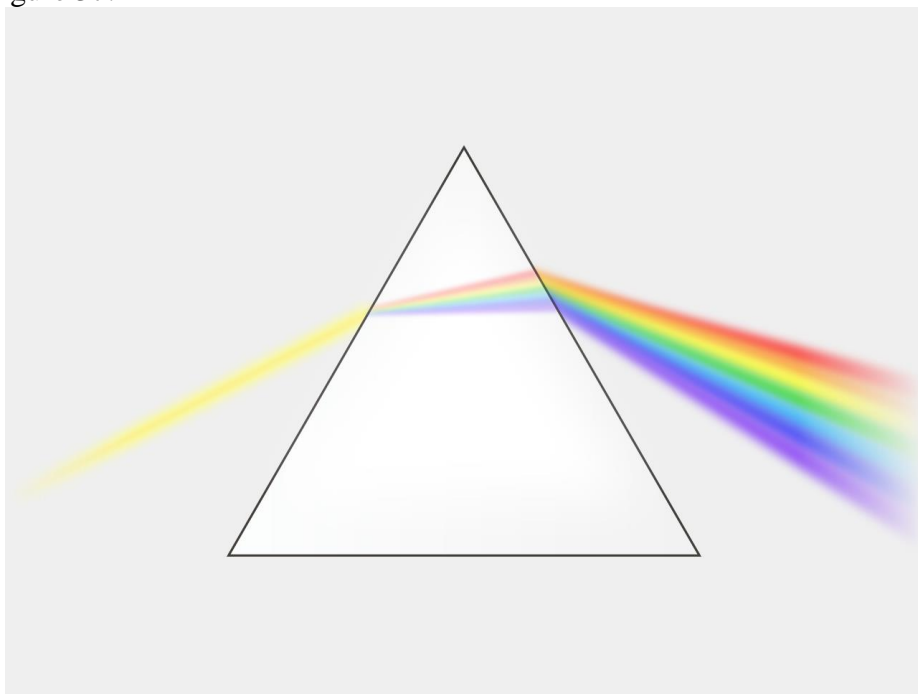


Figure 37: Light being bent by a prism.

As seen with a prism, lower energy light is bent *less* than higher energy light. This is because lower energy light physically travels *faster*

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than higher energy light in the infinite universe. If one could “*zoom in*” on a certain wavelength of light, they would see an observable universe much the same as our own, where the largest systems are essentially stationary relative to the light traversing the space.

This thought experiment can be repeated over and over, to the point where we can recognize that as particles approach infinitesimal, their velocities approach infinite. This is why gravity acts instantaneously. As a result, when visible light passes through a prism, the higher mass violet light particles are affected by the gravitational imbalance of the relatively slanted air-prism interface for a longer period of time than the lower mass red light particles, leading to a physical degree of gravitational lensing of the higher mass violet light particles that is greater than that of the lower mass red light particles. This is *why* a prism bends violet light more than red light.

Extending this principle further, this means that in order to bend the path of the particles which produce gravity, the lenses used must be far stronger and *fine-tuned* to their properties. Then, it is possible to produce usable energy from the unlimited pool of cosmic energy by using lenses *capable* of lensing the hardest of all particles to bend their path. These would be lenses composed of highly *dense* materials to successfully focus the radiation to a sufficient degree to produce usable energy.

With high density particles used in the lens, the effective force of gravity of the lens on the passing particles is greatly increased. This allows the smallest possible particles of the infinite ether of cosmic energy to be used. It is in the focus of those particles *most abundant* where the potentials of cosmic cells become most prevalent. Notably, due to our focus on the sun’s radiation, conventional lenses are fine-tuned to extract the most possible energy from the sun’s rays. However, these lenses do nothing to focus cosmic energy.

Regardless of the material used, the particles which cause gravity can pass through it. Therefore, even the densest and most opaque of materials in our perception is transparent to sufficiently small particles. By using the densest materials, these are most capable of physically redirecting the path of travel of the cosmic energy by means of gravitational lensing. Moreover, higher angles of the lens cause the greatest degree of imbalance at the edge of the lens so as to cause the most spontaneous deflection of the passing particles as they reach the lens boundaries. Several step-by-step lenses could be used to fine-tune the conversion steps sequentially through larger particle systems.

In addition, magnetic materials can be used to increase the degree of lensing that occurs. This is because the magnetic fields are composed of particles which are capable of acting upon the cosmic energy so as to further focus their flows to a focal point with a properly designed physical

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arrangement.

Successful implementation of a cosmic cell device would require focusing sufficient cosmic energy so as to produce a current.

The Cosmic Cell also represents the *focus* of *separate flows* into a *single point*, precisely the process necessary for society to *come together*. All it takes is the right lens—a *way of looking at things*—dense and large enough to bring society together and *create a new system*.

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## CHAPTER 7

### The Point of Origin

#### A. The Instruction Manual

In life, we are born in wonder. With each day, it seems there are more questions than answers. We turn to sources to ask, *who am I? Why am I?* Questions of our very existence and about *what is happening and why it is happening* are at our every turn. It appears as if we are just alive, left to wander the world with no guidance.

Where *is* the guidance, after all? Is God so *unjust*?

And so we do all that we *can* do. We *live*. We *do our best* with what we are given. The thing about life is it is not easy. That is, until it is. With every moment, we are given a choice. A choice to do what is *easy*, and step down. To take a break. To get some rest. To *lose focus, like removing a lens*. Or a choice to *stand up, to focus*, and rise. To stand up for all. There are two places we can find ourselves. Either standing up for all. Or not.

When it comes down to it, if we are not standing up for all, we are making excuses. To ourselves. Because we really *like* that part of life that we *cheat* with. It is cheating, after all. Taking the easy road. Reaping that which has not been earned. We are all guilty of it. That is, until we're not.

I am certainly guilty. In many ways. I know when I am making a decision that is wrong and is cheating. It is my impatience, wanting something *now*, wanting something I know I can't have. Crossing the line that I agreed with myself that it exists. It is in these moments where the line is most visible to ourselves, but it is present always.

Even in this moment, I question if sharing this information is because of this very same line being crossed. Doing something I know is not right. I want to be absolutely, unequivocally *free*. And I do not agree with anyone who tells me otherwise, because I know it is *how things should be*. In expressing my desires, however, I know that I am hindering on your freedom. To live the life that *you* are living of *your* choosing.

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Without *impacting your life*. Is it wrong to express myself and thereby *be* myself?

The universe itself is the instruction manual for life. By its very design, the instructions are *everywhere*. And yet, they are in no *single* place. If we focus on parts of the universe, we miss the instructions. When we focus on individual parts, we act as a receiver to that “*channel*” of reality. The smaller the part of all, the lower the energy source, as is the case in the cosmos. When we move closer, we increase the amount of radiation we receive from a given source. As a result, if we do not *focus* on *all*, then we have a *low energy source* and our capacity to impact the world *lowers like a mass in the cosmos with a low energy source*. If our focus is on all, and therefore our decisions and actions are fed by this focus, then we feed also our capacity to impact the world. If our focus is on certain specific parts, then our decisions and actions are fed by this. We choose the angle we want to look at the universe, in every given moment, and the degree of *zoom*; some larger scale than others and some smaller. And then we *live that angle*. Until we change the way we are looking at things.

Regardless of where our focus is, it feeds our actions. It is from our focus that we are fed. Focus on All is focus on God, for God *is* All. There is nothing but God. It is this that is of vital importance when scripture is read. If we read it without this axiom of truth, we have no hinge by which to determine the truths hidden within. If we want to believe some concept that goes against this principle, then there is *more to what is going on than meets the eye*. For example, in the *Ten Commandments*, the first two are:

“*I am the Lord thy God,*” and “*Thou shalt have no other gods before me.*”

Regardless of what interpretations may claim, God is *Everything*. There is nothing but God. *This* is God. Of whom is the Lord, thy God. And of whom to have no other gods before. This means that God is in *Everything*. God is in the Bible, but is also in everything else. Part of the picture is in everything, and therefore our focus should be on everything. Indeed, reality very much is a *picture*. Not a physical picture that we can look at, but one we see in our minds. One of how we see reality.

If we are focused on a small segment of the whole image of reality, it is like seeing a few pixels of an infinite picture. It is impossible to make out the whole image, which is worth far more than a thousand words in this case. Only when we actively zoom out, further and further until we start to see there is no end to the edge of the picture of reality, to see that it is infinite in all ways, is our *focus* on *all*. When we are *seeing the big picture*. And it's an *infinite one*, at that.

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It includes every sunrise, every smile, every laugh, every story, every thought, every life, every belief, every struggle. All of it, as we zoom out and consider more perspectives, *is* an instruction manual. It is *beautiful* and captivating. When it is seen, it persuades with this sight alone.

It tells us to build our lens dense and all encompassing, from thorough examination of a wide range of topics. To learn as much as possible about as many things as possible. Being *receivers*. *Students of Reality*. *Believing* in ourselves to take action in the face of fear. To believe that *I can*. And the only question is, *how?*

## **B. The Beginning**

I was born July 24<sup>th</sup> of 1985 and I grew up in New Castle, Delaware in the United States. As a teenager, I was attracted to science. I had no education outside of public school and life, and so my views were very skewed towards what I had come to know. Math and science was where I excelled, which is perhaps because I listened to it the most. I was a *conceptual* learner and was always more inclined to the studies that were intuitive, rather than based on memory, such as mathematics, chemistry, and physics.

This led me to be outspokenly atheist. In fact, I was in open *opposition*. This stemmed from my focus on particular beliefs that I did not find reasonable. With the dominance of Judeo-Christian viewpoints of God, I was most educated in the particular perspectives surrounding it which I found lacking. Not to say that I was educated. More, I was *only* educated *enough* to feed my disagreement.

In 2003, I went to college at the University of Delaware where I studied chemical engineering. I knew very little about the profession, but chose it because I felt mathematics and chemistry were where I was strongest. I did not know what I wanted to do with my life. What I did know, or at least thought going into it, was that I did not want to go to graduate school. My mentality was that I only needed to do well enough to get a job out of college, and that if I struggled to do so it would be worth the time I did not spend trying to get perfect grades. As a result, coupled with decisions to spend my time *living* rather than learning, I quickly went from being on top of material to falling behind drastically. This is not a good place to find oneself in life, let alone in a chemical engineering program.

After four years of struggling my way through class after class, I managed to graduate by the skin of my teeth. Two years in, however, I was very certain I did not *want* to be a chemical engineer. Instead of



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taking a step backward, and starting with a new choice of which I was equally uncertain, I carried on and finished. One of the courses I took was on patent law. Of all the jobs I became aware of for chemical engineers, one as a patent examiner was the most appealing to me as it did not require me to actually *do* chemical engineering. Another course I took happened to be on fuel cells. As a result, six months after graduating, I was called by the patent office and offered a job as a patent examiner in the fuel cells and battery art unit in November of 2007. Within days, I left Delaware and moved to Alexandria, Virginia, where the United States Patent and Trademark Office is headquartered.

I remained openly atheist still, even more certain with my advancing education in science. I would go to lunch and to play tennis and do various activities with some of my coworkers, and one day one of them, Tyler, asked me when I was talking about the non-existence of God, “*how do you know?*”

This was memorable to me because my analytical approach required fine-tuned accuracy. It so directly countered my atheism that I *had to* change the way I looked at reality. So began a process over the next seven years where I moved slowly but surely away from being a self-proclaimed atheist.

The first step was to amend my label to *agnostic*. This was *truer*, as it admitted to the fact that I did not *know*. However, ultimately my view stayed the same. To account for this, my label became very specifically: *agnostic, but I don't believe*. This added caveat allowed me to stay true to the fact that I did not know while simultaneously maintaining my disbelief.

Over the course of the following seven years, many things happened in my life. I began to telecommute, working from home. I moved across the country to Las Vegas and then to San Diego. As this was happening, my salary was increasing and I was becoming more and more *content* financially as my job became more and more of a chore. Patent examining was enjoyable in many ways, but it was not *my passion*. I grew more certain that I did not want to spend my life doing it, and with every dollar I saved, I became less motivated.

I spent my time learning who I was and what I liked. I learned things that interested me in my free time, played video games, piano and guitar, and tried to juggle the many obligations of life while finding my way.

I don't really know when or why I found myself so focused on astronomy, on cosmology particularly. In some ways, I always was connected to it. Looking back, it's as if it was such a primary part of my life that I was not even paying attention to it. I would learn things in

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passing, but I was never fully sold on any ideas. I can say with certainty that for as long as I have been aware of the Big Bang model, I have felt that it was illogical.

I do not know exactly *when* I asked the question, “*Why does motion cause redshift and not gravity?*” but it was central to my thought patterns. I always wondered why the Milky Way galaxy did not orbit a singular larger mass like everything else, why everything is just suddenly expanding into nothingness, with a beginning as well. Why were we so certain of something that went against the scientific method as well as logic and reason?

In San Diego, I found myself marveling at the beauty of the universe. I could not help but appreciate the magnitude of how fine-tuned the universe appeared to be as I learned more. It was at this time when I found myself precisely between belief and disbelief in God, truly *agnostic*, which is perhaps the most *honest to oneself* place to be. That is, unless they fundamentally *know* one way or the other.

And it was at this time, in the spring of 2014 when I found myself doing what I always do: listening to the same artist over and over. I would do this with any artist until I could not stand it anymore and then I was on to the next one. At this time, the particular artist was *A Great Big World*. I had their album, *Is There Anybody Out There?*, which I listened to daily on my bike rides *and* played on piano each day. The song which was my favorite is titled *Already Home*, which I found I loved the most. I especially enjoyed playing it on piano.

One night, I was lying in bed, asking the same question I had found myself wondering. *If the Milky Way galaxy orbits a larger mass, how does this produce gravitational redshift per distance in all directions?*

It was 2am, and a lyric from the song popped into my head: “*I will bend every light in the city and make sure it’s shining on you.*”

And at this moment it occurred to me that I had never considered that perhaps the object *bends* light from distant galaxies. Immediately, I got out of bed and started writing. I had no idea what I was getting myself into, but I began.

Within days, I put in my two-week notice and quit my job of nearly seven years. With nothing but the belief that the explanation was logical, I chose to completely commit to following my heart and mind. I had not figured out *anything* at that point, but I was so *certain* that I chose to give up my life as it was and risk everything.

I began reaching out to people immediately to discuss the concept. This process proved essential to expanding my awareness to the sheer *extent* of the task I was attempting to undertake. While my focus was on redshift, every observation I could find needed to also be considered.

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Every day was the same story. Wake up when I wake up, research until I pass out, and repeat. The model quickly became cohesive to a point where I was completely convinced I was onto something.

Early on, I realized that the universe was infinite and that there was only really one *thing*. At that time, that *thing* to me was gravity. I could not help but notice that I was finding the universe to be reducible to the result of *one thing* and simultaneously that *a song had told me*. It did not just direct me to some casual realization, but rather it told me the missing link to scientifically recognizing that all things come from one thing. I had not seriously entertained the possibility of God as *Conscious* in my life. Not until then. That, though, did not mean the Bible or any scripture had any particular validity. That, for certain, was just the works of people. Or so I thought.

At that time, *Cosmos: A Spacetime Odyssey* was being released. I remember watching the Isaac Newton episodes with particular interest. After all, my model was using classical mechanics and so I had a certain attraction to his work. I could not help but ask why someone with such a rational mind, as evidenced by his scientific impacts, had spent the majority of his life dedicated to occult studies.

So, I dove in. The first thing that got my attention was his translation of the Emerald Tablet:

*‘Tis true without lying, certain & most true.*

*That which is below is like that which is above & that which is above is like that which is below to do the miracles of one only thing*

*And as all things have been & arose from one by the mediation of one: so all things have their birth from this one thing by adaptation.*

*The Sun is its father, the moon its mother, the wind hath carried it in its belly, the earth is its nurse.*

*The father of all perfection in the whole world is here.*

*Its force or power is entire if it be converted into earth.*

*Separate thou the earth from the fire, the subtle from the gross sweetly with great industry.*

*It ascends from the earth to the heaven & again it descends to the earth & receives the force of things superior & inferior.*

*By this means you shall have the glory of the whole world  
& thereby all obscurity shall fly from you.*

*Its force is above all force. For it vanquishes every subtle thing & penetrates every solid thing.*

*So was the world created.*

*From this are & do come admirable adaptations whereof the means (or process) is here in this. Hence I am called Hermes Trismegist, having the three parts of the philosophy of the whole world*

*That which I have said of the operation of the Sun is accomplished & ended.”*

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This seemed to describe the way the universe functions far too accurately to ignore. I then proceeded to read *The Kybalion*<sup>44</sup>, which discusses the *Seven Hermetic Principles*. These include specifically The Principle of Correspondence, which is described simply by, “*As above so below, as below so above.*” I knew that these principles were more than fanciful words, they truly were *principles*.

The definition of *principle* is, again: “*a fundamental, primary, or general law or truth from which others are derived.*”<sup>7</sup>”

One of these principles was The Principle of Mentalism. This describes God as *The All, The Mind*. Concepts which were in agreement with what I felt. *If there is a God, then that God is All*. This would lead into me considering things I never thought I would *actually* consider.

I started reading the Bible. My viewpoint was that if Isaac Newton spent his life researching prophecies and searching for answers in occult studies, then he must have had a tangible reason. And so I started *with* his reasons. I read many of his interpretations of prophecies and found there was more than meets the eye going on.

I meticulously combed through prophecies and scripture, reading *several translations at once*. The process was extremely revealing. Certain translations regularly would narrow their wording towards their own interpretations while others would leave a more open language. On several occasions, I found translations so skewed that what was said was actually *wrong*. Not because it was wrong in truth, but because the translations were morphed by preconceptions so drastically that the meaning was gone. In books deemed as *The Word of God*.

This speaks volumes. What it tells us is that if we simply accept something at face value as *The Word of God*, then we will accept someone else’s interpretation within it without question. *We cannot find answers if we do not question*. One of the greatest errors a reader of scripture can make is to limit themselves to particular translations. This can be explained with physics. If we feed only one pixel of the “Bible” picture of reality, when there are many, then we have a very individually focused picture of what the Bible says. If we study them all, then we see a larger portion of the picture of reality because we are receiving energy from *all* the parts. Though such a perspective may be only focused generally on the Bible, it is broader than when a single translation is held as superior to others. A more *balanced* perspective is one drawing from all sources, not few.

At the same time, I began to delve deeply into world events, looking at them from as many angles as possible. News from mainstream sources, alternative media, from widely varying viewpoints, conspiracy theories, and everything I could find. This was largely in an attempt,

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simply put, to *figure out what was happening*. Not just in the world but in my life. I was just living and doing my best, floating about with no direction except wanting to enjoy my life and to be someone I liked by making decisions I approved of. Love was my greatest driving force. There were no real indicators that I would find myself at such a crossroads. However, this process of exposing myself openly to a wide range of interpretations about what was happening was exactly the *same* process as was a vital aspect of interpreting the Bible. A single source of information regarding world events is similar to a single Bible translation as a source of information regarding what the Bible says. In each instance, the viewpoint is more *balanced* when it spans a wide range of interpretations. And the viewpoint is more balanced still when it includes a wide range of interpretations *in a wide range of subject matter*. And it is in large images of higher *resolution* where the details are most vivid.

I came to believe that we live in very precarious times. In my research, I meticulously studied *Judgment Day* prophecies. My approach was scientific in nature. *If* there is truth in this, *then* it *must* have two things: *literal and complete fulfillment*. Rather than simply dismissing something I came exposed to because I did not feel it fit into my belief system, I supposed that there would be things that did not make sense right away and others that opened doorways of understanding, for I was seeing this. This was a vital step in the process because it meant I remained open to possibility and therefore I continued searching. I continued *receiving* information rather than closing the door.

An example of a literal teaching that people are scientifically certain is false is the Great Flood. However, as has been discussed, a Great Flood is precisely what would have happened if the Earth began to rotate and subsequently produced a strengthened electromagnetic field, where the field would lead to increased production of systems such as atoms where the fields merge at the center of the planet, especially the lighter weight hydrogen and oxygen, and where pressure would build up within the planet leading to instability which would be balanced by the release of material such as water. As a result, it is scientifically arguable that the Earth *did* have a Great Flood. In fact, there is substantial evidence for it geologically. Whether it occurred as is written in several accounts and translations of the event is another question.

This brings up the question of the age of the Earth. In short, I do not know. This is a very nuanced issue, but the major reason is because radiometric dating—measuring the amount of particular isotopes to determine the age of a sample—is fundamentally and unequivocally *flawed* as a process. It is rampant with assumptions, such as a *steady* rate of decay, a lack of *daughter* isotopes which the parent decays into at the

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formation of the sample, and no contamination from outside sources. These assumptions make the entire process unreliable for accurately measuring the actual age of materials. It is perhaps useful to a degree for *relative* terms, but because of these assumptions it is not useful for *absolute* age. For this reason, I do not find scientific processes of dating compelling. Science would be better off simply saying, “*we do not know*,” rather than insisting on radiometric dating as the only reliable and valid means for determining age. There are far too many variables unaccounted for in the process that essentially mean that *anything* could explain the isotope ratios, not *just* that the samples are precisely the ages posited. The rate of decay of atoms depends on their *environment* and it is a very substantial assumption to claim that Earth’s environment has always been precisely as it is today. The universe is full of change, and Earth would not be exempt from experiencing a changing environment.

I am getting ahead of myself, however. In August of 2014, after two months of relentlessly trying to put pieces of the “*puzzle*” together, I was compelled to go to Israel. I flew out in late August, leaving San Diego behind, and landed in Tel Aviv. While there, I kept doing what I could not help but doing: *trying to tell people*. I went into a synagogue and a rabbi suggested that I talk to a physicist, Dr. Schroeder, who taught classes in Jerusalem at Aish HaTorah. After several days in Tel Aviv, I went to Haifa to visit the Baha’i gardens. I went there to speak with people particularly because I was finding that there was truth in *all* sources, which is very similar to what Baha’i teachings are. And as has been up until now a central theme of my experience, I was unable to get my points across, I was so excited that all I could was to transmit.

I took a train then from Tel Aviv to Jerusalem where I stayed in the National Hotel Jerusalem. I had booked a stay there for a week and it was relatively cheap because it was located in eastern Jerusalem in a heavily Palestinian area. I have to pause and say that my stay at the hotel was nothing short of impactful. I was treated with courtesy and generosity, kindness and compassion at every turn. Where I could have been taken advantage of, I was not. Every day I was greeted with hospitality and respect, which has left a lasting impression on my life.

I spent the next week after arriving in Jerusalem going into Old City, and particularly going to Aish HaTorah. When I arrived, Dr. Schroeder just so happened to be away until after my return flight. And so, I was faced with an option. To adhere to my itinerary and to take my flight back at the end of the week, or to extend my stay. I discussed this with Nirvana, the most excellent hotel receptionist, who offered to give me the same rate for my room for another week. Then another, and another. What began as a two week trip ended in me pushing the limits of

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my three-month visa.

When the next week came and I met Dr. Schroeder, he did not know what to say of my work and ultimately was unable to help me. Every day they had classes, I attended Aish HaTorah's free lectures for the public and got a firsthand insight into Jewish philosophy. Many of the people there were young adults in Jerusalem to study Judaism, and I became friends with several people. Over the course of time, I became more frustrated at my inability to get my message across. The process was a learning experience in human nature and most particularly in my *own* nature. If anything, these last four years have taught me the importance of patience. And of persistence.

Every day, I would walk through the Palestinian section of Jerusalem and enter the Old City, walking through the Palestinian areas of the city to reach Aish HaTorah which is near the Western Wall. And every day I would observe the way Palestinians were treated. The regular checkpoints, the separation, the constant sounds of riot weapons in the distance. While I was there, a teenager was killed by police and the funeral led to a very eye-opening walk back from Aish HaTorah to my hotel. Outside of the Old City where I would exit at Herod's Gate was a police station and there were police on horses everywhere, many people protesting, tear gas cans littering the streets, as this was the police station that had led to the killing of the teenager.

When I managed to walk up the street towards the hotel, the whole street was a cloud of smoke with a fire in a large trash can and signs of the chaotic exchanges that had ensued. The incessant gunfire, the chaos, the conflict, the checkpoints was a constant part of my experience. I went there to share a message and when my visa was running out, I decided to come back even though I considered staying beyond it. I came home having learned firsthand of the problems we are facing.

As a white American traveling by myself, I certainly felt more at risk walking through the Palestinian section of Jerusalem than by being within the area around Aish HaTorah which was largely Jewish. This was largely a result of the oppression that the Palestinian people faced. When I walked, I did not stop to talk to people who tried to talk to me if it seemed they wanted something. I feared that I might be seen as someone to take anger out on as a perceived supporter of the oppression. I am not. I entered Israel knowing very little about what was going on, and I left with a strong compassion for Palestinians. And for Israelis, who find themselves in this predicament not by their own individual choice but rather by the motions from outside forces.

Regardless of history, the fact is that there were people living in Palestine when Israel was declared a nation. And this creation of a nation

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on top of another nation has created extreme stress in the region. The nation of Israel was forced into existence, in what I came to view as an attempt to fulfill prophecies by sheer overpowering force. In order to be maintained, it is necessary to continue to apply pressure. The atrocities committed in Israel are untold and are in no way reflective of the prophesied Israel. Israel, by definition, means *God prevails*.

Biased and imbalanced, Israel's governance is not representative of God prevailing. And yet, it is Israel by name. This, coupled with the Holocaust, lead to blind support for the nation's actions globally. The average person is not aware of the nuances of what is occurring and generally will support the Israeli government's actions if they are not Muslim or particularly aware. Not only does this happen in complacency but also financially. For example, the United States government has, since Israel's creation, regularly given foreign aid to support the government's imposition. Like putting two magnets closer and closer together, the force of repulsion increases exponentially. This manifests as the turmoil that we see regularly in Israel.

As perhaps a final testament to the limitations of freedom to which the government's actions prescribe, I made it to the airport early and was sitting past the first checkpoint—prior to the security checkpoint, however—waiting. I was early and so I felt that I had time to use, so I sat down and began reading the Bible. While I was doing this, I was approached by a guard who asked me what I was doing, and who told me I needed to go through the security checkpoint. So I did.

I noticed several things different in the process than what I was used to. They were actively rubbing the interior of bags with a swath and testing it for bomb residue. When my turn came to go through, they closely analyzed my itinerary, or lack thereof. They saw that I had been there for nearly three months, and they asked why. They went through the contents of my bag and found a Quran, heavily written in, which I had also been regularly reading. This was not something to just casually accept, and so they asked me for pictures of my time in Israel. I showed them what I had, but they felt that it was not *enough* for a three month stay in Israel. A non-uniform security guard came over and stood directly behind my shoulder as this process occurred.

*"How long have you been growing your beard?"* the airport employee asked. I told him, *"three months,"* to which he replied, *"no one can grow a beard that long in three months."* Okay. He looked through my notebooks and asked me why I had a Quran. I told him I was researching. The presence of the Quran in my contents was so substantial that they held me for *hours*, standing there. My flight, which I was early for, was approaching.



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While this was happening, I turned to the guard behind me and asked, “*Are you my bodyguard?*” He chuckled, but maintained a professional composure, and then shook his head, “*don’t do that,*” when I later made another comment to attempt to dissipate the air of concern and looming doom that this procedure was growing towards. Finally, they accepted that they could not find any reason to actually hold me, and so they allowed me to pass.

When I got back to San Diego, the bag which I had checked was nowhere to be seen. It did not arrive until suddenly days later someone dropped it off at my doorstep. Clearly, though I was able to make my flight after they inspected every inch of my bag and grilled me with questions, my checked bag was pulled out and rummaged through as well in the same way, to the point where it did not make the flight with me.

I got back from Israel, returning to my apartment in San Diego, where I then spent several months dedicatedly making a video for YouTube, which I published in January of 2015, to accompany my completed paper I had written before leaving for Israel. I published my paper on my own for several reasons. In fact, all of my work has been non-conventionally published.

Firstly, I found the peer review process to be extremely biased. Going *against* the grain, claiming that what is thought of as true is false, is not a simple task. The peer review process requires first that the paper be within specific guidelines of how it is constructed. Then, the submitted paper is reviewed by an editor who is in total control of deciding whether or not to pass it along to peer reviewers. Then, a panel of typically three peer reviewers determine whether or not the paper should be published.

In other words, in order for information to make it out to people *en masse*, it is necessary to first be accepted by a single person. Then by three people. Immediately, this process is flawed because it puts the entire decision of whether or not the public can even be able to *decide for themselves* of the truth of an idea on the shoulders of *one individual*. When the concepts go against what that individual believes, it makes it much more difficult to “*pass the test.*” Even so, if it does, it then requires an additional step of being judged by three more like-minded people. The argument is that these people are all skilled in the art. However, they are still human beings. And they are *not* aware of the intricacies of ideas outside of their realm of perceiving reality. Even then, if the paper *is* published then the journal has the right to control who can and cannot access it through requiring it to be purchased, where I did not want a third party profiting off my work by limiting it. This process is highly detrimental to the *free-flow of information*. If something is untrue, then the individual can draw that conclusion. It does not necessarily *help* to

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filter what reaches people.

In the same way as electronics with too many resistors, when the free flow of information is limited greatly then the energy that feeds society does not reach it and so society, in the long-term, cannot maintain itself.

I found myself in a position to publish *on my own* and do things *my way* to make a statement while standing for what I believe in. In most instances, if someone publishes scientific theories without peer review, they are discredited by this mere fact. However, I am in a unique opportunity where my arguments are logical and reasonable and sound to a point where I *know* my work will garner attention regardless of what scientists think of it. Given that I *tried* to peer-review, even in *spite* of disagreeing with the process, it also shows how damaging the process can be by not publishing information that the public deserves to know due to biased interpretation. Individuals are perfectly capable to draw their own conclusions and do not need someone else preventing them from seeing information simply because that person disagrees with the concepts and overall presentation. It is a very dangerous approach.

It was in January of 2015 also when I met one of the most influential people in my life, Mirko, through another such person, James. I was a cannabis user for several years at this time, but had not tried anything else. James mentioned he would be doing psilocybin mushrooms with Mirko and per my request kindly asked if I could join. I was certain there is truth in everything and cannabis had played an undeniable role in my research. What that truth is, though, is much more subtle.

When I met Mirko, I was in a mode of *tell-the-world-everything-immediately*. Every person I met, I would jump into all the things going on in my head, how the universe functions, and then all these interconnected events of the Bible and world events. Mirko patiently listened. Until he didn't. He let me know what he really felt, telling me how ridiculous I was being coming into his home and bombarding him. He took hold of my attention and conveyed his message, completely redirecting my path. From that night onward, my approach has been much more appreciative of the position of others. Not enough, but more than when I was telling everyone I met everything. Nor did it change overnight, but the redirection of that interaction has been pivotal. Years later, the three of us would move into a house together. But that is neither here nor now.

We did not see each other for several months after until June of 2015. At that time, myself and James were both preparing to move out of our apartments. I was getting rid of my possessions, beginning a long process of appreciating that which I have and not just tossing aside things

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that have come to me. I *had* a Taylor 814-ce acoustic guitar, it was my most cherished possession, and I sold it very cheaply. I had an electronic keyboard that I loved, a projector, an apartment full of furniture, a kayak, a telescope, a custom laptop. I got rid of it all, mostly giving it away or selling it so low that it was nearly given. I downsized everything to my car. I “*trusted in God*” in ways where I would just leave my bike unlocked at the base of the stairs to my apartment. After a few weeks, it was taken. God speaks in funny ways. I would not have been able to bring it anyway, and so that was “*solved*” while I also was taught a valuable lesson.

At the end of July, I moved out and spent two weeks living with James as well as Chris who also was moving away at the same time by “happenstance.” Then, I left San Diego. With no plan except to stop in Las Vegas to visit my friends Steve and Amanda who I had lived with, and to reconvene with James in Nevada at Great Basin National Park. The rest, in my eyes, was up to God’s Will.

When I met James at Great Basin, it was a majestic experience. We camped along the boundary of a field surrounded by campsites. I am not going to hide it, I was and am very interested in “*drugs*.” Or as Mirko, who was a shaman in Peru for several years, would call them: *medicine*. With that said, I feel they are neither and yet both. To me, they were mechanisms to *stretch my limits of perception*. Like a telescope or microscope, a means to further peak into the infinite layers of reality and gain a better understanding. But they are also fun, and dangerous, able to teach lessons that were not at all what was intended.

Therefore, this is in no way an endorsement however it is in no way a rejection of drugs. I do not know what history will say of their place in society. The true issue regarding them is a matter of *individual choice*. Limiting what someone “*is allowed*” to do does not produce the intended outcomes in the same way as drugs do not always produce the intended outcomes. There are equal and opposite side effects to everything. An example of this would be that the drug industry is *hidden* and so it becomes rampant with impurities harmful to those who do use them. It criminalizes the entire process. Also, people are simply not *educated* on what they are doing and can go beyond what is safe.

I say this because this was my first time trying DMT. In all my uses of it, I have not had an out-of-body experience as is frequently described. I have had heightened senses, though, seeing *flows* that are not visible normally. In this particular instance, the field we were next to was empty. Then two small children, a boy and a girl, ran across the field. They explored it, looking at the rocks and climbing things. It was in this moment when I appreciated the explorative nature most apparent in

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children. It made me realize that, no matter what happens, everything will be okay. Children will continue to explore and learn about the world around us.

Then, we took mushrooms and hiked the Bristlecone Pine Trail. At the top was an area littered with Bristlecone Pines. These trees are ancient, surviving for thousands of years in the extreme climates of the glacial mountains. They are twisted and warped. Their endurance and perseverance across literally *millennia* is inspirational. We sat down next to one for several hours without anyone walking by on the hiking trail. It *knew* we were there and it *knew* we were aware of its awareness. There was a degree of communication occurring by emotion and feeling, through our actions. When we did leave, we began to see people hiking the trail. It was as if there was a pause in the flow of people specifically so we could *hang out* with this grandfatherly tree. Something about it was *grandfatherly* rather than *grandmotherly*. I remember standing up and having a branch lay across my back and touch my right shoulder as if it was embracing me. While we were there, its *conscious presence* was obvious and palpable.

Then, after a few days, we went our separate ways. I continued on to Utah and went to several parks there. In Zion National Park, I met someone who suggested I should go to Capital Reef National Park. And so I did. This was how I traveled. I spent a few weeks in Utah, hiking under a full moon at Bryce Canyon and meeting people as I traveled. Still, I was committed to sharing what I knew and so I was learning to be more patient and less imposing of my viewpoints. The process was, and is, not instantaneous.

I found myself in Mesa Verde National Park in Colorado by another's suggestion. And this began a month of moving around Colorado, camping wherever I felt like stopping. One particular stop was especially memorable, at South Mineral Campground. I was in a Jeep Wrangler, my car filled with what I had left, and I saw an opportunity to take an off-road trail there, and so I did. I camped in the middle of the mountains near a river and small lakes or ponds. The next morning, I went for a walk around the area and talked to a couple who had camped nearby who suggested that I check out a nearby hike to Ice Lake. And so I did.

I still remember, I had no idea how long the hike was. It seemed to go on for a while and when I finally got to a lake, I thought that was the end. But the trail continued. And so I kept going up the mountain. When I did reach the lake, I froze when I saw it. It was a glacier lake, and it was a rich blue color that I had never seen before. A woman passed me and said, "*I know, right?*" or something along those lines, seeing me taken

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aback by how captivating the lake was. Colorado is *beautiful*.

This is representative of the nature of reality. When only one dimension is looked at, it is like a plain. There is very little *depth* seen, and so the beauty that comes from the wide range of *elevations* is not present. However, when we look at the depth and intricacy of reality, we see it not as a plain but as having all the variety and detail of mountain ranges. But even mountain ranges cannot compare to the depths of infinity. They are the same, and yet different. Infinity *comprises* all these things. It *comprises* every mountain range and plain, every planet and star, *everything*. The beauty of infinity, which can only be seen with the mind's eye, has the same effect as this mountain's lake, but *infinitefold*. The ability to stop someone in their tracks. To grab their attention and make them say, *the climb was worth it*. To make them take a deep breath, and take everything in. To bring them to become one with it.

The next day, I drove up the mountain to Clear Lake, another lake there. It was not the same color, and while beautiful in its own right, it was dark and more alike to lakes I had been accustomed to. It was as if there was no shortcut to seeing what was most pleasing to see, nor a substitute.

I then drove north, and found my way to Black Canyon of the Gunnison National Park. There, I met Bill and Keith. They were at the campsite across from me in an RV, on their way up to a property that they were planning to turn into a community. They were traveling from San Diego, and the first thing Bill said to me was, "*do you burn?*" Which, well, I did. I showed him my pipe, likely grinned, and he came over and talked with me. He told me of how he on several occasions had left the comforts of his life to travel with nothing but his banjo. Which he was very good at.

We spent some time together that night, and they invited me to join them at the property for a few days. And so I did. We spent the days doing several things. For example, we looked to see if there were any gold flakes in the upper layers of the soil. They were cutting down the trees which were most in danger of falling, aspens, and had a large pile of firewood that we used. We hung out and talked. I did my standard talk-too-much process of trying to share my view, however, and we have since lost touch. They gave me numbers to reach them but, like my bicycle, I did not secure them. The piece of paper, when I looked for it, had disappeared, seemingly blown away in the wind.

This was a valuable experience because I believe communal living is a very useful setting for growth. Individuals in this setting have a much more uniform environmental impact, since it functions as one large unit rather than individual family units, which makes the community *become* a

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family with shared experiences. Sharing experiences is vital to understanding one another's perspectives and easiest when the experience itself is actually *shared*.

After leaving there, I found myself in Rocky Mountain National Park. Then camping outside of Denver. When I left Denver, I saw someone hitchhiking at the on-ramp. So, I picked him up. His name was Eric. He was in his early 20's. We talked and he told me some of his story and where he was going. He was from South Carolina, if my memory serves me correctly, and was trying to get to Colorado Springs. As we drove, he told me he was ultimately trying to get to New Mexico.

Now, Mirko, James and I had been talking about moving to Taos, New Mexico together. So, I took that as an indication that maybe it was time to go to New Mexico. I offered to drive him to Taos and he agreed. When we got there, we could not find somewhere to camp and so we parked at a dayhike-only location and decided to set up tents. We climbed a hill and were hidden over the ledge, and camped that night. As we were there, people came up the hill from down below. They were camping as well and came to say hello. It was three of them and a pitbull. They were on acid and offered mushrooms which we took. Tara and Justin were running away together. Tara had a black eye from her ex who had hit her and they were trying to get away from Taos. The third person was there to visit Taos Pueblo for a vision quest, as the area is very mystical in ways, and they had crossed paths.

The next day, Tara and Justin asked to join us. I told them, as they had a pitbull as well, "*if you can make it fit,*" when my backseat was entirely full. And they did. And so we traveled together, four of us and a pitbull in my packed, lifted lime green Jeep Wrangler. They were trying to get to Pensacola, Florida. Florida being where my parents live. And, as you may have noticed, I took this sign seriously as an indication that I should go to Florida.

We started out meandering at first through New Mexico, camping in several places as the cold of September nights in the mountains started to become more and more noticeable. Then, we made our way to Fort Worth, Texas, where Justin had lived. We stayed with some of his close friends for several days. It was during this time of going with the flow of things where I decided to try meth. On several occasions. I was informed that heavy users would visually see many things.

Methamphetamine is not something to be casually perusing. It, of course, causes extensive damage to your teeth and lungs. But, in spite of that, I gave it a chance. To see for myself what others experienced, and to understand. I stayed awake for days, repeatedly doing it every several hours to *reawaken*. The last time I did it, I fell asleep just the same. I tell

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this story for several reasons. Firstly, because I want to be honest about myself to you. Second, to shed light onto the limits I am willing to go for understanding. Third, to highlight the risks involved.

Not all drugs are created equal. They are equal, because all things are, and yet they are not. Some are less dangerous or harmful than others. With every decision to venture into the realm of *experience*, we run the risk of getting too close. Drugs are a very strong magnet and if we get close enough, regardless of our intentions, we can get pulled in. Addiction to something that we know harms us is one of the hardest holes to climb out of.

It is like smoking a cigarette. If you smoke one and have no history, you will not get close enough to feel the pull. If you smoke enough, however, you will be more and more *pulled in* to the world of *being* a smoker. I say this from experience. The closer we get, the stronger the force *exponentially*, as is the force of gravity. Sooner or later, we are *on* that planet, and it takes a *rocket launch* to reach escape velocity. An example of a rocket launch would be something that *moves us*. An experience that is so impactful that it causes us to actually change our mental position so drastically and quickly that we are able to *escape* the pull. Or us *moving ourselves* by *shoving away as hard as we can*. This is not somewhere to be. Freedom relies on us being free spirits, capable of floating about in any environment without attachment. If you find yourself caught up, living in any reality that it seems you cannot manage to escape, know that being strong and firm and pushing away can give you the *escape velocity* to do so. For, *it is written in the cosmos*.

To this day, I wonder what impact those few decisions have had on my life. And I was lucky because I did not come out *understanding* the addiction. I had no urge to do it more. What I came out with, though, was a greater degree of caution. I will certainly carry the experience with me for the rest of my life.

After a few weeks of traveling together, Eric went his own way from Fort Worth. Then we made the rest of the trip to Florida extremely quickly. I was feeling drawn to get there. I dropped off Tara, Justin, and their pitbull in Pensacola where they would later get married and then made my way to my parents' house. Where I just showed up.

This was around early October, 2015. I ended up spending the next fourteen months living there and traveling around the east coast. I spent a lot of time on people's couches, Eric and Vinnie's, in Delaware. Or in spare bedrooms, at Roman and Kristen's. I was kindly and graciously hosted by good friends who have been supportive of me for many years through the tumultuous times. And while my journey has been a surprise and difficult to understand, they have not held my actions

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against me, for which I am grateful.

When I got back to Florida, I was offered an opportunity to join Mirko and James in San Diego and work on a startup company as distributors. Mirko had obtained exclusive distribution rights to the products within the United States, which are produced by a company in Austria. They are designed from principles developed by the renowned Viktor Schauberger, who spent his life studying water. The concept of the products was that they were made—using a physical vortex design, coupled with crystals, and vials—to *restructure* water. Which is claimed to be healthier for the body by being more easily absorbed into cells by the geometric arrangements that the water tends to be in.

I never fully understood the products, though I would like to. Generally speaking, it is easy for a scientifically focused mind to dismiss the concept as pseudoscience. However, I cannot deny having heard of and seen various results that suggest they have an actual, lasting influence on water that passes through them. Even if it is purely a placebo effect, the result is that it gets people to drink more water. There were reasons to believe something more substantial may be occurring, however. What exactly is happening, I do not know. And if it *is* happening, what overall effects the water has on the body, I do not know. In the least, it greatly encourages hydration and makes the process *fun*. I moved to San Diego in December of 2016 in agreement to join. While I was there, we regularly set up vendor booths to raise awareness and sell the products. They are handcrafted and very appealing to the eye. When I would tell people about the products, the way I did so evolved over time to the point where I always would specifically start, “*the principle is...*” to make it clear that what I was saying was *my* best understanding of the conceptual descriptions of what is thought to occur rather than a complete explanation.

This, coupled with my general social skills or lack thereof, made me a poor salesman. Or at least of the product which I did not know enough about to have formulated a complete opinion. Though I knew I would struggle going into it, I assumed things would come along by the time my finances were pressing. At that moment in time, I was going on two and a half years without working. As a patent examiner, I saved substantially. Over the course of time after, I burned through my savings like it would never end. I took out my 401(k), my Roth IRA, my everything. In San Diego, all I had left of any value was my car.

As a result, my financial issues that I was hoping would be supplemented were not solved. I borrowed money from James initially, but as that piled up, I could not any longer. I invested a lot of time and energy, and my own money at times, into our efforts and when I could not



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access any funds from six months of working with the startup, I left at the end of May of 2017. I ended up trading in my car in Palm Springs, California, which I had put in the area of \$50,000 into to fully pay it off when I *was* making money for a 2008 Kia Rondo and \$12,000 cash. After my time living out of my car, I had grown very fond of it.

A lot of the cash went to paying James back, at least in part, and as a thank you for Jason and Endearment who kindly let me stay with them for a few weeks after I abruptly left San Diego. Since June of 2017, I have been living with my parents on my last few dimes as IRS issues plague me. You cannot just say, “*No, I do not agree that your actions are right,*” to the IRS. At least not alone. They will “*garnish*” what you owe. In other words, *take it*. I do not know what the future holds, in this regard.

As of this writing, it is now September of 2018 and for the last fifteen months I have lived with my parents. I spent six months working at a Lowes Garden Center distributing plants, but have been generally unemployed otherwise since quitting my job as a patent examiner. My employer has ultimately been myself, who has financed my research either directly or through running up “*tabs*” where I know that I need to bring balance to relationships I have with those who have helped me along the way.

Importantly, throughout all of this process I have been a student of reality. Like the *telephone* game, the messages I am told are not necessarily what I am conveying them as, but rather my interpretations. My objective, though, is to be a better listener and to improve my communication skills.

Everything happens for a reason. Over the last several months particularly, my work has turned a new corner and several additional aspects of the model discussed herein have come to light. These advancements have been pivotal. Sooner or later, though, it will be necessary to be in a position where I can bear the fruits of my labor. This book is my latest attempt to share my discoveries—*rediscoveries*—regarding how the universe fundamentally functions, as I have been shown by circumstances, anomalies, and happenstances that are only explicable one way: *God’s Will*. For over four years, I have not relented from analyzing every moment closely because of this. This is my perspective and where I am coming from.

### **C. Judgment Day**

I would be remiss if I did not discuss what may be perhaps the most important components of my work here. Or maybe it is just insane ramblings. Alas.

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As we have discussed, all things in the universe function the same. Stars supernova. This means that planets can supernova too. One event would be capable of producing literal and complete fulfillment from a very *wide range* of prophecies pertaining to Judgment Day: *the planetary supernova of Mercury*.

This is recognized by close inspection of prophecies of many sources *and* by observations of the planets of the solar system. By there being such a specific concept that would be capable of literal and complete fulfillment of prophecies from a very extensive array of sources, it becomes very improbable scientifically for there to be any other explanation than that this is how it would happen. This analysis begins with consideration of prophecies and *then* looks to the planets for consideration.

### *Nostradamus*

#### **IV:29**

*“The sun hidden eclipsed by Mercury,  
Will be placed only second in the sky;  
Of Vulcan Hermes will be made food,  
The Sun will be seen pure, glowing red and golden.”*<sup>45</sup>

If the planet Mercury were to undergo a planetary supernova, it would not be as energetic as a star’s supernova, but it would be sufficiently luminous so as to outshine the sun. This is evidenced because a supernova of a star in a distant galaxy is known to be *more* luminous than the rest of the galaxy combined while the supernova is occurring<sup>46</sup>. So, too, would the planetary supernova of Mercury be; *“as above, so below.”*

Mercury is known to be shrinking<sup>47</sup>. As Byrne et al. state, *“Mercury’s global contraction [is] much greater than earlier estimates.”* Moreover, the core is considered to be highly iron-rich, having more iron content than any other major planet in the solar system. Its iron core is said to encompass *three-fourths* of its total diameter<sup>48</sup>.

These are telling conditions that are known steps of a star’s supernova mechanics. Stars supernova as the density of the material increases to a sufficient degree that the system is no longer stable, and this is perceivable as a reduction in the overall radius. When a star develops a sufficiently iron core, it reaches a critical point of instability and thereby supernovas<sup>49</sup>.

New systems are regularly discovered. When Isaac Newton’s

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calculations on the orbit of Mercury showed it was not as accurate as the other planets, the general consensus was that there was another planet near the sun, which was called *Vulcan*.

While this planet was never discovered, and Einstein's General Relativity was said to have disproven the planet, as has been shown throughout this text general relativity is not an accurate description of the nature of the universe. The universe functions under the laws of classical mechanics, which dictate the motions of all bodies in the infinite universe.

While the planet Vulcan is still theoretical, it is possible that this event could expose the existence of another body in the solar system as the wave of debris from the planetary supernova of Mercury passes over it and is gravitationally brought into the body, allowing it to be easily *visible*. Our knowledge of all bodies in the cosmos is not exhaustive, and even our solar system has been shown to contain hidden bodies still remaining undiscovered or out of the mainstream knowledge of society.

Due to the influx of energy into planets that is associated with *planetary alignments*, which is known to cause earthquakes<sup>50</sup>, this indicates that it would be most probable for a critical instability point to occur at a time of planetary alignment. If Mercury were to be in alignment with Earth and the sun at the time of a planetary supernova, then it could be physically positioned in a way where the sun would be seen differently; *"pure, glowing red and golden."*

As a result, it stands to reason that this quatrain could be literally and completely fulfilled by the planetary supernova of Mercury.

## II:41

*"The great star will burn for seven days,  
The cloud will cause two suns to appear:  
The big mastiff will howl all night,  
When the great pontiff changes country."*<sup>45</sup>

No star burns for seven days. However, supernova are extremely short in duration and extremely luminous<sup>46</sup>. A supernova's brightness can last several years with peak brightness of several months. Smaller systems function more rapidly. Thus, a planetary supernova of Mercury would be expected to last on a time frame similar to seven days and be perceived not *just* as a star, but as a *great* star due to its luminosity.

This event would cause a wave of debris to move outward, which could make visible to us other unrecognized systems in the solar system, alike to Vulcan. Additionally, in mythology, the concept of the *"black sun"* regularly appears. It is possible that this is an unrecognized system.

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Perhaps the *antisun* to our *sun*. If there were such a system, the cloud of debris from the planetary supernova of Mercury would cause it to be *visible*.

Notably, just because we do not have direct scientific evidence of the existence of these systems does not mean they do not exist. These connections are made here because they would produce *literal and complete* fulfillment of the prophecies, which suggests they should not be written off without full consideration because *we do not know everything*. The interconnectedness and hidden awareness of all mythology shows it stands to reason that *some things were known that have been forgotten*.

If this were to occur, when the debris cloud from the planetary supernova of Mercury were to reach Earth, it would cause a wind to sweep across the Earth that would produce a howling effect *audibly*. The final line of the quatrain links an event on Earth that would be simultaneously occurring.

#### IV:28

*“When Venus will be covered by the Sun,  
Under splendor will be a hidden form:  
Mercury will have exposed them to fire,  
Through warlike noise it will be insulted.”<sup>45</sup>*

The planetary alignment of Venus, as covered by the sun, suggests there would be several planets in alignment allowing for greater still influx of energy into the planet Mercury that could push it over its critical instability point so as to cause the planetary supernova to occur. Again, we see another mention of a *hidden form* that is exposed. And again, we see another reference to the *noise* that would be audibly produced on Earth. Lastly, as a planetary supernova of Mercury would be capable of doing, it *exposes them to fire*.

#### III:34

*“When the eclipse of the Sun shall be,  
The monster will be seen in full day:  
Quite otherwise will one interpret it,  
High price unguarded: none shall have foreseen it.”<sup>45</sup>*

Once more we see reference to the Sun being *eclipsed*, and again to the concept that *another form* exists, this time as “*the monster*.” The rest of the quatrain relates to perspectives on Earth and not directly to

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scientific interpretation.

## ***The Bible***

### **Ezekiel 1:4-14 (NRSV)<sup>51</sup>**

*“4As I looked, a stormy wind came out of the north: a great cloud with brightness around it and fire flashing forth continually, and in the middle of the fire, something like gleaming amber. 5In the middle of it was something like four living creatures. This was their appearance: they were of human form. 6Each had four faces, and each of them had four wings. 7Their legs were straight, and the soles of their feet were like the sole of a calf’s foot; and they sparkled like burnished bronze. 8Under their wings on their four sides they had human hands. And the four had their faces and their wings thus: 9their wings touched one another; each of them moved straight ahead, without turning as they moved. 10As for the appearance of their faces: the four had the face of a human being, the face of a lion on the right side, the face of an ox on the left side, and the face of an eagle; 11such were their faces. Their wings were spread out above; each creature had two wings, each of which touched the wing of another, while two covered their bodies. 12Each moved straight ahead; wherever the spirit would go, they went, without turning as they went. 13In the middle of the living creatures there was something that looked like burning coals of fire, like torches moving to and fro among the living creatures; the fire was bright, and lightning issued from the fire. 14The living creatures darted to and fro, like a flash of lightning.”*

Importantly, Ezekiel is describing what he saw, which is why the term “like” is regularly used. I have chosen the New Revised Standard Version because, through comparisons with other versions, this is the one that I have found to be the most open and least modified by the interpretations of the translator. It is certainly not flawless, nor am I, but this is why it is important to use many translations and look to the original text for reference when possible and necessary. These observations are no different than any others. Scripture is a part of reality and it *exists*; it, too, can be observed and interpreted *scientifically*.

In verse 4, Ezekiel begins to describe what is interpretable as the planetary supernova of Mercury. As discussed by Nostradamus, it includes a *stormy wind* as this is the cloud of debris formed by the event that produces a *wind*. The event has “*brightness around it and fire flashing forth continually,*” as a planetary supernova would likely appear. In the *middle*, which would be *Mercury itself*, is a “*gleaming amber,*” bright from the event.

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In verses 5, 6, 8, and 10, Ezekiel specifically describes what he observes to appear to have *four* of various features. As discussed regarding Nostradamus prophecies, the planetary supernova of Mercury would be most probable to occur when it is in *alignment* with the Earth and the sun. This is significant because an *Einstein cross*, as depicted in Figure 12, produces *four* images of *one* body. This occurs due to gravitational lensing of the light so that the observer see *four* images. He describes what these four images look like. Dependent on the angle the light travels, variance in the appearance of the planetary supernova is plausible and could result in differing images in each instance as Ezekiel particularly describes.

He goes on to detail that the images *move as one unit*. This is how any celestial object moves, and the planetary supernova of Mercury would appear to move: as if it is all one system moving. Additionally, *they do not turn as they move*. The images produced by planetary supernova of Mercury would not be observed as *turning* because it would be a celestial event in the sky. As with a supernova, the event would energetically intense and would be capable of producing lightning and fire that produces the observations as described by Ezekiel.

### **Ezekiel 1:15-21 (NRSV)**

*“<sup>15</sup>As I looked at the living creatures, I saw a wheel on the earth besides the living creatures, one for each of the four of them. <sup>16</sup>As for the appearance of the wheels and their construction: their appearance was like the gleaming of beryl; and the four had the same form, their construction being something like a wheel within a wheel. <sup>17</sup>When they moved, they moved in any of the four directions without veering as they moves. <sup>18</sup>Their rims were tall and awesome, for the rims of all four were full of eyes around. <sup>19</sup>When the living creatures moved, the wheels moved beside them; and when the living creatures rose from the earth, the wheels rose. <sup>20</sup>Wherever the spirit would go, they went, and the wheels rose along with them; for the spirit of the living creatures was in the wheels. <sup>21</sup>When they moved, the others moved; when they stopped, the others stopped; and when they rose from the earth, the wheels rose along with them; for the spirit of the living creatures was in the wheels.”*

A supernova produces a “wheel” around it, from the initial shockwave; so, too, would the planetary supernova of Mercury. Interestingly, a particular supernova was observed as having an energetic ring with “eyes” in it—Supernova 1987A as seen in Figure 38:

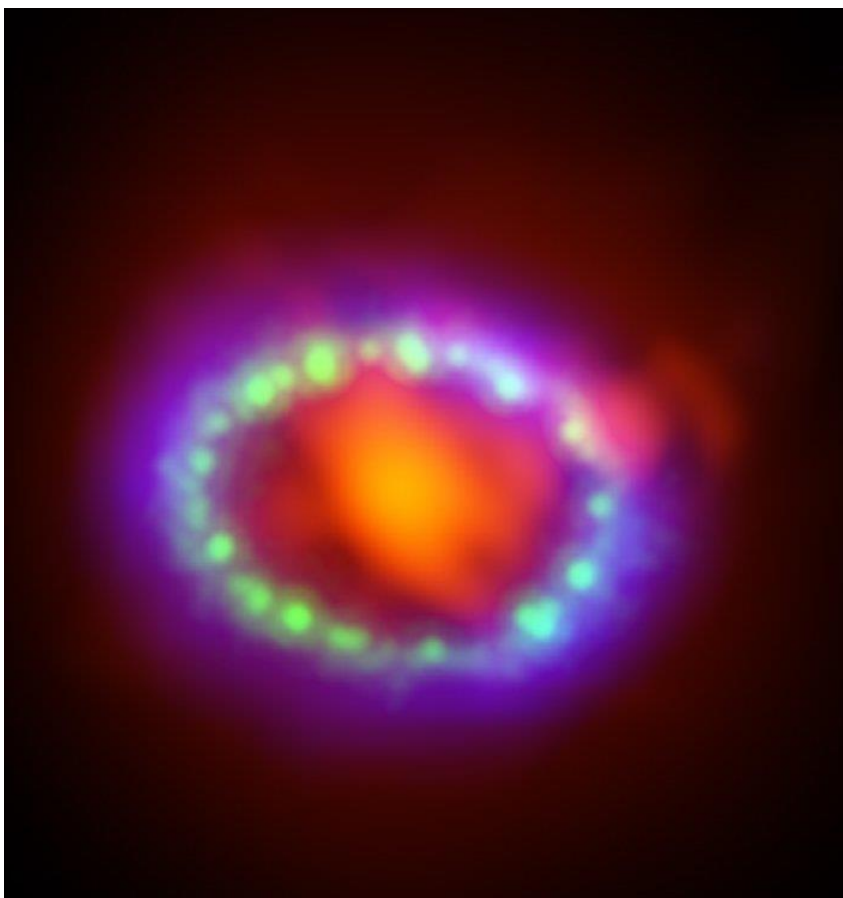


Figure 38: Visible and X-ray light composite image of Supernova 1987A.

Coupled with an Einstein cross, this would produce *four* separate observations of a similar event. Again, he describes the total image as moving together *because it is the result of one celestial body*. Importantly, he describes that it *rises from the earth* in the same way as the *sun* rises from the Earth, as *Mercury* rises from the Earth, because it is the description of observations of a celestial body.

### **Ezekiel 1:22-28 (NRSV)**

*“<sup>22</sup>Over the heads of the living creatures there was something like a dome, shining like crystal, spread out above their heads. <sup>23</sup>Under the dome their wings were stretched out straight, one toward another; and each of the creatures had two wings covering its body. <sup>24</sup>When they moved, I heard the sound of their wings like the sound of mighty waters, like the thunder of the Almighty, a sound of tumult like the sound of an*

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army; when they stopped, they let down their wings. <sup>25</sup>And there came a voice from above the dome over their heads; when they stopped, they let down their wings.

<sup>26</sup>And above the dome over their heads there was something like a throne, in appearance like sapphire; and seated above the likeness of a throne was something that seemed like a human form. <sup>27</sup>Upward from what appeared like the loins I saw something like gleaming amber, something that looked like fire enclosed all around; and downward from what looked like the loins I saw something that looked like fire, and there was a splendor all around. <sup>28</sup>Like the bow in a cloud on a rainy day, such was the appearance of the splendor all around. This was the appearance of the likeness of the glory of the Lord.”

Looking again to Supernova 1987A, we can see an example of what appears like “wings” as seen in Figure 39:

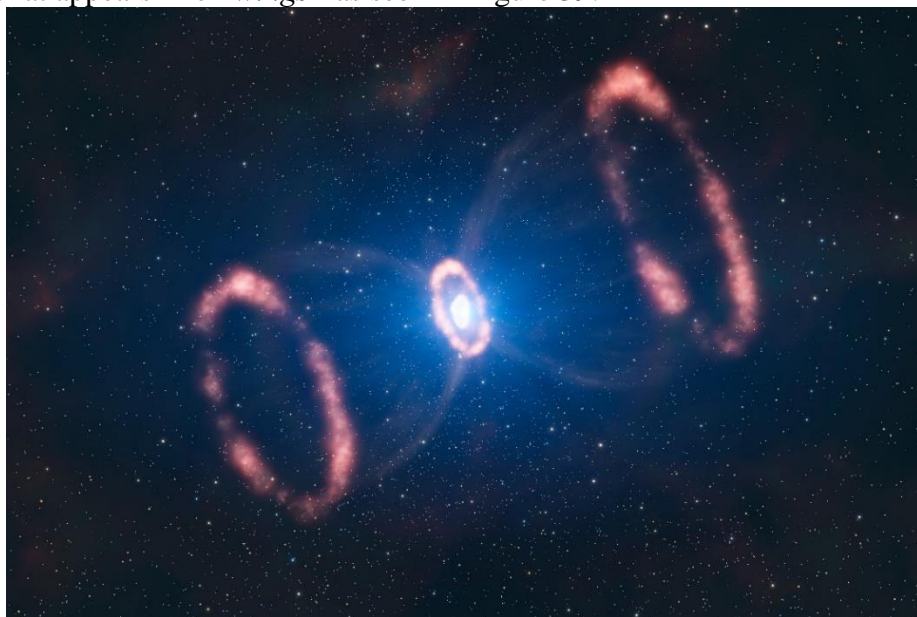


Figure 39: “Wings” of Supernova 1987A.

Again, we see more detail of how this event appears to Ezekiel. In addition, their motion provides a variance in the *rate* at which material from the supernova reaches earth. This produces an *observed variance* in the *sound*. Also, motion can produce changes in the gravitational lensing effects which can produce changes in the appearance of the wings over time.

Also, it is interesting that he describes a *dome* above the image with something in appearance *like sapphire*, with *fire all around*. As



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*antimatter* is a *vacuum particle*, it also would have a “*photosphere*.” Referring to the “*second sun*” of Nostradamus as the “*black sun*,” Ezekiel appears to be describing a similar object. Sapphire is *dark*, a shade of purple. A black sun, when fed by an energetic event in this manner, could be seen in a similar manner, having *fire all around* where the material meets it. Other details regarding the *human form* and *throne* are related to how the particles all interact with one another, making it much more difficult to do more than to propose that it is possible that images could form in the interactions that appear in any of ways, including these. Without the event occurring, it would be impossible to compare. Therefore, the most that can be done is to look for *as many parallels as possible* and to continue seeking to determine if the larger picture generates the outlook of *plausibility or certainty* or not.

The connection of the Einstein cross to Judgment Day is significant as well. God is *Unlimited, Everything, All, Infinite*; there is nothing but God. On the polar opposite end of the spectrum of this, which is both the same and yet the opposite, is that God is limited to one. When one individual is interpreted to *be* God, and held as the most important aspect of reality, the unspoken half of this perception is that *nothing else is*. This is the exact opposite of what God *is*, and is thereby the *epitome* of idolatry. The symbol of the cross has a long history which predates Jesus, being found in many cultures globally. However, it has since become associated with Jesus so much so that it has become, simply put, the greatest *symbol* of idolatry. Judgment Day’s connection to a visible cross in the sky that demonstrates that God is *Everything* suggests the true origin of the cross is the *repetition* of this event. We will revisit the concept that this is not the *first time* this would have occurred in a few moments.

### **Ezekiel 11:19-21 (NRSV)**

“<sup>19</sup>*I will give them one heart, and put a new spirit within them; I will remove the heart of stone from their flesh and give them a heart of flesh,* <sup>20</sup>*so that they may follow my statutes and keep my ordinances and obey them. Then they shall be my people, and I will be their God.* <sup>21</sup>*But as for those whose heart goes after their detestable things and their abominations, I will bring their deeds upon their own heads, says the Lord God.*”

When people *understand* that God is *Everything* and is not *limited* to one *part* of *Everything*, and when they aim to *love God* by loving *Everything*, then the heart of stone is replaced with a heart of *flesh*. In this case, God would be *followed and obeyed*.

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The cloud of debris coming from the planetary supernova of Mercury, however, would rain down upon Earth, “bringing their deeds upon their own heads.”

### **Malachi 4:1-3 (NRSV)**

*“<sup>1</sup>See, the day is coming, burning like an oven, when all the arrogant and all evildoers will be stubble; the day that comes shall burn them up, says the Lord of hosts, so that it will leave them neither root nor branch. <sup>2</sup>But for you who revere my name the sun of righteousness shall rise, with healing in its wings. You shall go out leaping like calves from the stall. <sup>3</sup>And you shall tread down the wicked, for they will be ashes under the soles of your feet, on the day when I act, says the Lord of hosts.”*

As the cloud of debris from the planetary supernova of Mercury would be extremely energetic, it would bring with it *heat* that would cause *intense temperatures*. This implies that a day would come where order is restored by the Force of God and a society with this knowledge would arise.

It is important to note that *this does not need to happen*. In a way, prophecies are a *warning*. A warning to *change our ways* and live for *all*. Whether we do it ourselves or God forces it is up to if people decide to change their *focus*. I know that I am not exempt from this. I also know that God is my Judge.

### **Jeremiah 30:23-24 (NRSV)**

*“<sup>23</sup>Look, the storm of the Lord! Wrath has gone forth, a whirling tempest; it will burst upon the heads of the wicked. <sup>24</sup>The fierce anger of the Lord will not turn back until he has executed and accomplished the intents of his mind. In the latter days you will understand this.”*

The cloud of debris that would come from the planetary supernova of Mercury would be extremely energetic; *a storm*. It would create a literal *whirling tempest* about the Earth, which would cause debris to fall upon people’s heads. This, again, would be the result of people not turning to God and continuing to bring chaos by focusing on *limited versions of God*. God is *Unlimited*. Different versions of God, which can be *any limited part* of all, produce chaos by creating artificial “*interior*” and “*exterior*” components. This causes tension which leads to separation like the vacuums of space, rather than order that comes from a unified system like a star in the cosmos.

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### **Joel 2:10-13 (NRSV)**

*“<sup>10</sup>The earth quakes before them, the heavens tremble. The sun and the moon are darkened, and the stars withdraw their shining. <sup>11</sup>The Lord utters his voice at the head of his army; how vast is his host! Numberless are those who obey his command. Truly the day of the Lord is great; terrible indeed—who can endure it? <sup>12</sup>Yet even now, says the Lord, return to me with all your heart, with fasting, with weeping and with mourning; <sup>13</sup>rend your hearts and not your clothing. Return to the Lord, your God, for he is gracious and merciful, slow to anger, and abounding in steadfast love, and relents from punishing.”*

As previously discussed, the planetary alignment of several planets is suggested to accompany this event, which would lead to an increase in *earthquakes*. Moreover, the cloud of debris from a planetary supernova of Mercury would, upon arriving to Earth, block out the light from celestial objects. This would cause the sun, moon, and stars to be *hidden*, so as to be darkened. Just as the universe is infinite, the wave of debris would be composed of a numberless amount of particles.

Explicitly it is stated that this need not happen. God is *Just*, and a society which chooses as a whole to *focus on all* would thereby return to God and this would not occur.

### **Joel 2:21-22 (NRSV)**

*“<sup>21</sup>Do not fear, O soil; be glad and rejoice, for the Lord has done great things! <sup>22</sup>Do not fear, you animals of the field, for the pastures of the wilderness are green; the tree bears its fruit, the fig tree and vine give their full yield.”*

Such an event as the planetary supernova of Mercury would bring with it many elements to coat the surface of planets, which would be capable of providing the necessary nutrients so that plants can thrive and thereby *produce their full yield*.

### **Isaiah 30:26 (NRSV)**

*“<sup>26</sup>Moreover the light of the moon will be like the light of the sun, and the light of the sun will be sevenfold, like the light of seven days, on the day when the Lord binds up the injuries of his people, and heals the wounds inflicted by his blow.”*

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As this event would be extremely luminous, the sun and Mercury would produce much more light and the moon would therefore *reflect* much more light and thereby the systems would be capable of producing this effect.

### **Zechariah 9:14 (NRSV)**

*“<sup>14</sup>Then the Lord will appear over them, and his arrow go forth like lightning; the Lord God will sound the trumpet and march forth in the whirlwinds of the south.”*

The planetary supernova of Mercury would appear in the sky above, going forth like lightning and producing the audible sound of the wave as it reaches Earth. As the cloud of debris expanded outward, it would be gravitationally influenced into a *whirlwind* around the Earth.

### **Zephaniah 1:14-18 (NRSV)**

*“<sup>14</sup>The great day of the Lord is near, near and hastening fast; the sound of the day of the Lord is bitter, the warrior cries aloud there. <sup>15</sup>That day will be a day of wrath, a day of distress and anguish, a day of ruin and devastation, a day of darkness and gloom, a day of clouds and thick darkness, <sup>16</sup>a day of trumpet blast and battle cry against the fortified cities and against the lofty battlements.*

*“<sup>17</sup>I will bring such distress upon the people that they shall walk like the blind; because they have sinned against the Lord, their blood shall be poured out like dust, and their flesh like dung. <sup>18</sup>Neither their silver nor their gold will be able to save them on the day of the Lord’s wrath; in the fire of his passion the whole earth shall be consumed; for a full, a terrible end he will make of all the inhabitants of the earth.”*

We see the same elements of thick clouds bringing darkness, the sound of the trumpet blast, and fire consuming the earth. Once again, the planetary supernova of Mercury would be capable of literally fulfilling the prophecies.

Notably, it speaks of *all* inhabitants, as other translations also say. This is an instance where the scientific approach should be to recognize that *some text is not fully understood*. It is not possible to simply understand all parts of the Bible without *first* understanding other parts, as well as other *sections of reality outside of those parts*. Simply because

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something does not provide complete compatibility does not mean it should be dismissed or disregarded. Rather, it means that the full picture is not completed and some of the sequence in which things are to be understood needs further exposure to outside concepts to gain greater *possible angles of interpretation* so that things that did not make sense can come together.

Importantly, the planetary supernova of Mercury would not *only* affect Earth, it would also influence the other planets in the solar system, especially Venus and also Mars. As will be discussed below, the planet Venus would not be detrimentally effected but rather could be stripped of much of its atmosphere to produce a *new Earth*, while our planet Earth would become the *new Mars*.

It is possible that this aspect becomes understood by some and that they, through *future* technological advancements and increased awareness, *leave Earth* so that all who remain are those who think Earth is safe because they do not consider the possibility that this connected thread through all prophecies may actually happen.

### ***The Quran***

#### **Sura Al-Dukhān 44:10-11**

*“<sup>10</sup>Therefore, watch for the day when the sky brings a profound smoke. <sup>11</sup>It will envelop the people; this is a painful retribution.”*

The Quran<sup>52</sup> describes much of the same. Again, we see discussion of the wave of debris that the planetary supernova of Mercury would produce, causing a cloud of “*profound smoke*” that would envelop the planet and bring judgment to the people.

The following quotations from the Quran detailing the literal hellfire of Judgment Day would be also fulfilled by the planetary supernova of Mercury and the effects of the influx of energy to Earth.

#### **Sura Āli-‘Imrān 3:131**

*“<sup>131</sup>Beware of the hellfire that awaits the disbelievers.”*

#### **Sura Al-Toor 52:42-44**

*“<sup>42</sup>Are they plotting and scheming? The disbelievers’ schemes backfire against them. <sup>43</sup>Do they have another god besides God? God be glorified, far above having partners. <sup>44</sup>When they see masses falling from*

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*the sky, they will say, 'Piled clouds!'"*

### **Sura Al-Ma'aarej 70:8**

*"<sup>8</sup>The day will come when the sky will be like molten rocks. The mountains will be like fluffy wool."*

### **Sura Al-Qaare'ah 101:1-11**

*"<sup>1</sup>The Shocker. <sup>2</sup>What a shocker! <sup>3</sup>Do you have any idea what the Shocker is? <sup>4</sup>That is the day when the people come out like swarms of butterflies. <sup>5</sup>The mountains will be like fluffy wool. <sup>6</sup>As for him whose weights are heavy. <sup>7</sup>He will lead a happy eternal life. <sup>8</sup>As for him whose weights are light. <sup>9</sup>His destiny is lowly. <sup>10</sup>Do you know what it is? <sup>11</sup>The blazing Hellfire."*

### **Sura Al-Humazah 104:1-6**

*"<sup>1</sup>Woe to every backbiter, slanderer. <sup>2</sup>He hoards money and counts it. <sup>3</sup>As if his money will make him immortal. <sup>4</sup>Never; he will be thrown into the Devastator. <sup>5</sup>Do you know what the Devastator is? <sup>6</sup>God's blazing Hellfire."*

### ***Sibylline Oracles***

The *Sibylline Oracles*<sup>53</sup> are a compilation of oracular utterances ascribed to the Sibyls, prophetesses said to have uttered divine revelations in a frenzied state. They are written in Greek hexameters.

### **Sibylline Oracles Book II 243-254**

*"For a dark mist shall hide the boundless world, East, west, south, and north. And then shall flow a mighty stream of burning fire from heaven and every place consume, earth, ocean vast, and gleaming sea, and lakes, and rivers, springs, and cruel Hades and the heavenly sky. And heavenly lights shall break up into one and into outward form all-desolate. For stars from heaven shall fall into all seas. And all the souls of men shall gnash their teeth burned both by Sulphur stream and force of fire in ravenous soil, and ashes hide all things."*

Here, we continue to see this connection of a dark mist, the cloud of debris which would sweep across Earth bringing with it debris that

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would rain down on Earth as a *literal* hellfire. Additionally, this references *noxious fumes*, which would likely be present just as the fumes of a volcano.

### **Sibylline Oracles Book VI 32-38**

*“He himself who is born the mighty God, who shall work many signs, shall through heaven hang an axle in the midst, and place for men a mighty terror to be seen on high, measuring a column with a mighty fire whose drops shall slay the races of mankind that have dared evils.”*

There are various references to *an axle*, a *pillar*, or a *column* in connection to Judgment Day. Alike to Supernova 1987A above, gravitational lensing of this event would be capable of being perceivable as such. This connects back into Ezekiel Chapter 1 and the origin of the cross, as another sign that there will be shapes formed due to the celestial event that God would be using to bring Judgment.

### **Sibylline Oracles Book VIII, 311-326**

*“For the earth shall then with heat be shriveled and the dashing streams shall with the fountains fall. The trump shall send from heaven a very lamentable sound, howling the loathsomeness of wretched men and the world’s woes. And then the yawning earth shall show Tartarean chaos. And all kings shall come unto the judgment seat of God. And there shall out of heaven a stream of fire and brimstone flow. But for all mortals then shall there a sign be, a distinguished seal, the Wood among believers, and the horn fondly desired, the life of pious men, but it shall be stumbling block of the world, giving illumination to the elect by water in twelve springs.”*

Once more, we see the hellfire and the trumpet of the sound of the wave of the debris that would be produced by the planetary supernova of Mercury. Most interesting here is that *“then shall there a sign be, a distinguished seal, the Wood among believers.”* The Wood is also called *The Cross* by the translator. This is another distinctly improbable connection between Ezekiel Chapter 1 and the origin of the cross. While one source is insufficient, the connection of many sources pointing towards an Einstein Cross observed if the planetary supernova of Mercury occurred, with the Sun at the center, is much more apparent and prevalent when many sources are combined.

Further references in Sibylline Oracles are listed below which

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reinforce that Judgment Day would include a literal hellfire.

### **Sibylline Oracles Book IV, 210-248**

*“Ah! Miserable mortals, change these things, nor lead the might God to wrath extreme; put giving up your swords and pointed knives, and homicides and wanton violence, wash your whole body in perennial streams, and lifting up your hands to heaven seek pardon for former deeds and expiate with praise bitter impiety; and God will give repentance; he will not destroy; and wrath will he again restrain, if in your hearts ye all will practice honored piety. But if, ill-disposed, ye obey me not, but with a fondness for strange lack of sense receive all these things with an evil ear, there shall be over all the world a fire and greatest omen with sword and with trump at sunrise; the whole world shall hear the roar and the mighty sound. And he shall burn all earth, and destroy the whole race of men, and all the cities and the rivers and the sea; all things he’ll burn, and it shall be black dust. But when now all things shall have been reduced to dust and ashes, God shall have calmed the fire unspeakable which he lit up, the bones and ashes of men God himself again will fashion, and he will again raise mortals up, even as they were before. And then shall be the judgment, at which God himself as judge shall judge the world again; and all who sinned with impious hearts, even them, shall he again hide under mounds of earth [Dark Tartarus and Stygian Gehenna]. But all who shall be pious shall again live on the earth [and (shall inherit there) the great immortal God’s unwasting bliss,] God giving spirit life and joy to them [the pious; and they all shall see themselves beholding the sun’s sweet and cheering light. O happy on the earth shall be that man.]”*

### **Sibylline Oracles Book III 61-67**

*“And then shall come inexorable wrath on Latin men; three shall by piteous fate endamage Rome. And perish shall all men, with their own houses, when from heaven shall flow a fiery cataract. Ah, wretched me! When shall that day and when shall judgment come of the immortal God, the mighty King?”*

### **Sibylline Oracles Book III 100-106**

*“And to the mighty earth and sea shall fall the entire multiform sky; and there shall flow a tireless cataract of raging fire, and it shall burn the land, and burn the sea, and heavenly sky, and night, and day, and melt creation itself together and pick out what is pure.”*



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## Sibylline Oracles Book III 861-866

*“And God shall judge all by war and by sword and by fire and by overwhelming storm; and brimstone there shall be from heaven, and stones and great and grievous hail; and death shall come upon the quadrupeds. And then shall they know God, the Immortal, who performs these things.”*

### ***Bahman Yasht***

The *Bahman Yasht*<sup>54</sup>, or the *Zand-i Wahman Yasn*, is a Zoroastrian apocalyptic text.

### **Chapter 2:41-42**

*“And in that tenth hundredth winter, which is the end of thy millennium, O righteous Zartosht! All mankind will bind torn hair, disregarding revelation, so that a willingly-disposed cloud and a righteous wind are not able to produce rain its proper time and season. And a dark cloud makes the whole sky night, and the hot wind and the cold wind arrive, and bring along fruit and seed of corn, even the rain in its proper time; and it does not rain, and that which rains also rains more noxious creatures than water; and the water of rivers and springs will diminish, and there will be no increase.”*

Once more we see the cloud of debris which would envelop the Earth and block out light. Additionally, there is another reference here to the noxious fumes as another aspect of judgment.

### ***Roman Mythology***

In Roman mythology, Mercury is the *messenger god*. As has been described above, the planetary supernova of Mercury as the mechanism of Judgment Day causes Mercury to act literally as a *messenger*.

Thereby, it is plausible that one single celestial event is capable of fulfilling the prophecies regarding Judgment Day across a wide range of sources in an extremely *literal* sense.

Regardless of the accuracy of this, *we need to work together*. We are social beings who rely on a well-oiled and maintained society for our own personal happiness. It is only in our personal benefit to *focus on all*, to stand for *unity, equality, peace, and freedom for all*. We do not have to,

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though. If we choose not to, then whether or not something as drastic as this occurs does not matter; society *will* fall. It is up to each and every one of us to take action specifically with all in mind that we may manifest our infinite potential as individuals and as a society. To reverse the flow of time and turn the chaos, thereby, into order. The vacuum into the star.

While this section has focused on prophecies with very little scientific information, a study of the planets with these concepts in mind can shed light onto the idea. Either it has happened before or there are warning signs which we have heeded time and time again that are *written in the cosmos*.

#### **D. The Planets**

In Roman mythology, Venus is the *goddess of love*. Mars, on the other hand, is the *god of war*. In Chinese philosophy, the feminine spirit is considered *passive* whereas the masculine spirit is considered *active*. This is the first indication to look to these planets with the planetary supernova of Mercury in mind. It stands to reason that such an event could cause Venus to *become* the new Earth while our planet would become the new Mars. Earth is presently ruled by an *active, warlike spirit* of society. A planet inhabited *after* Judgment Day would be ruled by a *passive, loving spirit* of society.

Venus is one of the four so-called terrestrial planets in the solar system, meaning that, like Earth, it is a rocky body. In size and mass, it is similar to Earth, and is often described as Earth's "*sister*" or "*twin*."<sup>55</sup> Notably, the atmosphere is about *ninety times* as thick as Earth's. Venus has a radius of 6052 kilometers while Earth's radius is 6378 kilometers. Venus and Earth densities are 5250 kg/m<sup>3</sup> and 5520 kg/m<sup>3</sup>, respectively. Thus, Venus is quite similar in make-up to Earth, while notably *is* slightly smaller than Earth currently is.

Venus rotates counter-clockwise extremely slowly, taking 243 Earth days for one full rotation. As has been discussed regarding the need for *spin* to produce detectable electromagnetic fields, this causes Venus to have no detectable electromagnetic field. Additionally limiting the electromagnetic field, due to its very slow rotation speed, it is the *most spherical planet* and does not bulge at the equator, having nearly identical diameter from pole-to-pole as it has at the equator. This causes gravitational forces behind particles that pass through the body to be *balanced* behind it so that they continue to travel in a straight line away, thereby reducing the strength of the electromagnetic field.

The surface of Venus is extremely *young*, having *evenly distributed* surface craters with similar erosion. This indicates that there

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was a resurfacing of the planet in a *singular event*.<sup>56</sup>

There are 167 volcanoes larger than 100 kilometers in diameter on Venus<sup>52</sup>. It is speculated that *the entire planet is a supervolcano*, the whole surface being simultaneously resurfaced. Herein we find clues to indicate *how* the planet is as it is: *it was the previous Mercury and underwent a planetary supernova*. This would have produced a thick atmosphere and simultaneous resurfacing. Venus has many unique surface features, such as flat-topped volcanic features called “*farra*”, which are alike to pancakes ranging from 20 to 50 kilometers in diameter; radial star-like fracture systems called “*novae*,” features with both radial and concentric fractures alike to spider webs, known as “*arachnoids*”; and “*coronae*”, circular rings of fractures sometimes surrounded by a depression; all of which are *volcanic in origin*.<sup>57</sup>

Little direct information is known about the internal structure of Venus. However, the similarity in size and density between Venus and Earth suggests they share a similar internal structure: a core, mantle, and crust. Like that of the Earth, the Venusian core is thought to be at least partially liquid because the two planets have been cooling at about the same rate<sup>58</sup>.

There *are* discrepancies between the planets, as discussed above. Firstly, the atmosphere is *much* thicker. However, what this provides for is a *protective layer* for the planet. If Mercury were to supernova, it would not bombard Venus’ surface with powerful radiation and material, instead it would *strip the atmosphere away* and this would be capable of bringing about an Earth-like atmosphere. The planet also would be physically pushed by this “*tsunami*”-like wave from the planetary supernova, alike to the photoelectric effect, and it stands to reason that this, coupled with its new positioning in the sun’s magnetic field, would be capable of producing a rotation on Venus so its days *become* one Earth day.

Venus is smaller and more spherical than Earth. However, this is due to its lack of rotation. If it began to rotate from this process, it would then begin to cause gravitational influence on the infinitesimal particles flowing away from it that *bends* the particles so that they come back to the center. This would effectively produce an electromagnetic field on the planet of the order of magnitude of Earth’s. As the electromagnetic field is a flow of *particles*, the flow of this mass into the center of the planet would *increase*. Additionally, the planet itself would experience stress due to the rotation that would cause it to bulge at the equator and crack due to this. The pressure inside of the planet would increase because there would be an increase in *nuclear fusion* within the planet due to the new electromagnetic field.

This would lead to the production of atoms and molecules, such as

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water, which at some point would break free from the pressured build-up in the planet and lead to a “*Great Flood*”, alike to as told of in many stories. This, then, *would form oceans and continents*.

Thereby, Venus is *transformable* into a planet very much like Earth as we know it. Earth, on the other hand, would be capable of transitioning to become the new *Mars*.

Mars is often referred to as the “*Red Planet*” because of the iron oxide prevalent on its surface, which gives it a reddish appearance<sup>59</sup>. Mars is a terrestrial planet having a thin atmosphere, surface features such as impact craters alike to the Moon and volcanoes, valleys, deserts, and polar ice caps alike to Earth. The *Borealis basin*, as shown in Figure 40, in the northern hemisphere covers 40% of the planet and may be a giant impact feature.<sup>60,61</sup>

As seen below, topographic maps of Mars show much lower elevations in the northern hemisphere than in the southern hemisphere, and can be depressed by several *kilometers*. Geological evidence gathered by unmanned missions suggest that Mars *once had large-scale water coverage on its surface* at some earlier stage in its history.<sup>62</sup> In fact, evidence indicates that Mars at one point had *oceans*.<sup>63</sup>

Mars has approximately half the diameter of Earth. Due to a loss of the magnetosphere, solar wind interacts directly with the atmosphere and strips away atoms from the outer layer. Both Mars Global Surveyor and Mars Express have detected ionized atmospheric particles trailing off into space behind Mars.<sup>64</sup>

The Martian topography dichotomy is extremely distinct, having flattened northern plains in contrast to southern highlands that are pitted and cratered by impacts as shown in Figure 40. It has been postulated that the planet was struck in the northern hemisphere by an object *one-tenth to two-thirds* the size of *the Moon*.<sup>60,61</sup> Some crater morphology suggest the ground became wet upon meteor impacts, indicating that water was present.<sup>65,66</sup>

Olympus Mons is an extinct shield volcano on Mars, one of the two tallest mountains in the solar system at a height of 21 to 27 kilometers.

Valles Marineris, as shown in Figure 41, is a system of canyons that is more than 4,000 kilometers long, 200 kilometers wide, and up to 7 kilometers deep. This canyon *was not carved by water*, with an unknown cause.

Mars has a similar tilt to the rotational axis of Earth, at 25.19° relative to its orbital plane, while Earth’s is 23.44°. The length of a day on Mars is 24 hours and 40 minutes and the atmosphere is less than 1% as thick as Earth’s.<sup>67</sup>

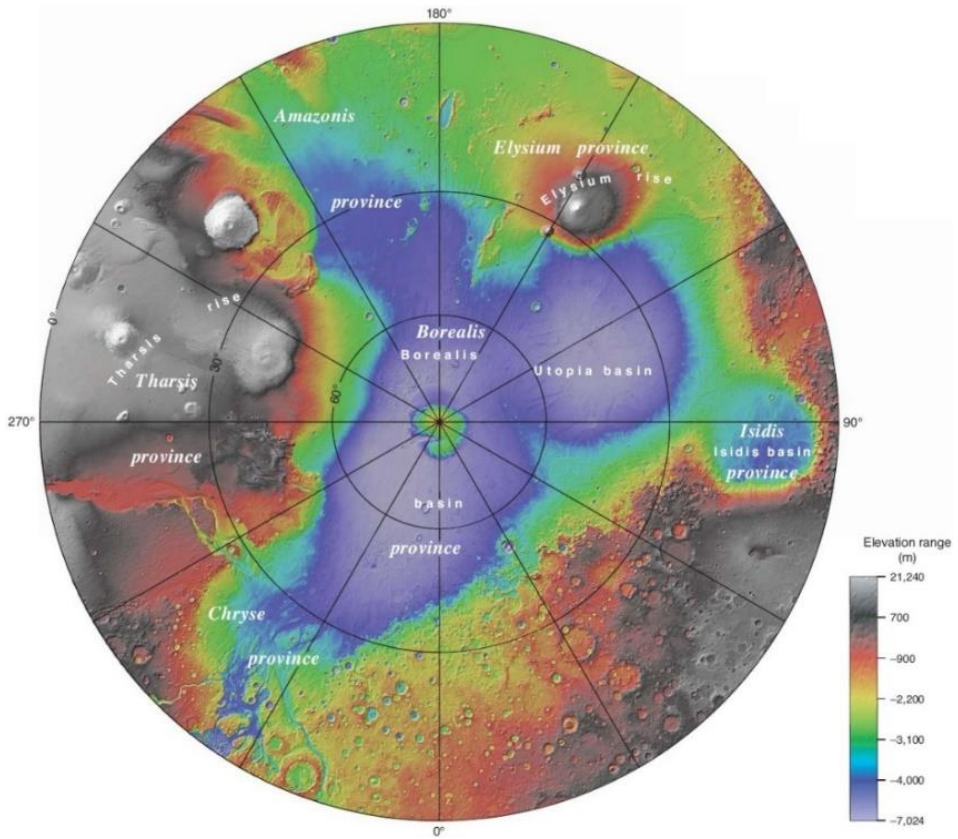


Figure 40: Elevation map of Borealis basin in northern hemisphere of Mars.

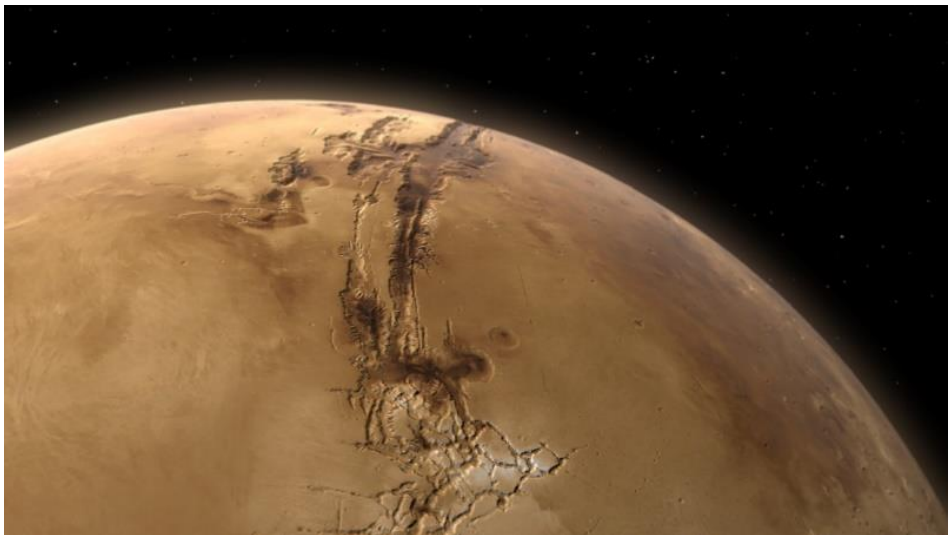


Figure 41: Valles Marineris of Mars.

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With these observations in mind, we can analyze the likely outcome of a planetary supernova of Mercury and its effects on *our* Earth. Due to the high iron content of Mercury's core, it would be expected to be capable of causing the surface of Earth to be coated in iron oxide, as we observe on Mars. The atmosphere of Earth, which is much thinner than Venus', would not protect the planet but rather would be largely stripped away and the heat of the event would vaporize lighter materials, thereby largely removing the water of Earth.

Dependent on the relative position of the moon at the time of the event, a portion of what is left of the atmosphere-lacking moon would be capable of contacting Earth and bringing about a northern hemisphere alike to Mars, while the southern hemisphere is bombarded with other smaller debris causing a *cratered dichotomy*. Alternatively, large debris from the planetary supernova could create such an observation.

Additionally, moons alike to those of Mars—*Phobos* and *Deimos*—whose origins are unknown, could result from the aftermath of such an event.

Any debris falling into the oceans would cause tidal waves resulting in crater morphology as observed on Mars. The loss of the magnetosphere would cause Earth to begin to shrink to a physically smaller mass as the event itself and solar winds then strip away material, thereby becoming observable as having a size alike to Mars. Supervolcanoes such as Yellowstone would be expected to erupt and become extinct afterwards due to the high influx of energy, resulting in observations such as Olympus Mons.

Moreover, large debris would be capable of producing a glancing blow that could carve out a crater such as Valles Marineris. The rotational axis and length of the day could remain largely the same due to perhaps the electromagnetic field preventing change to the rotation. It is noted that Mars itself, the one that we see, would be swept by the planetary supernova of Mercury into the asteroid belt where it would be observed as a dwarf planet alike to Ceres.

*“<sup>13</sup>Therefore, I will make the heavens tremble, and the earth will be shaken out of its place, at the wrath of the Lord of hosts in the day of his fierce anger.”—Isaiah 13:13 (NRSV)*

Just as Venus and Mars would be capable of being dislodged from their position, like electrons of an atom, so too would the Earth be *shaken out of its place* by being physically pushed out of its present orbit.

Therefore, the observational evidence of each planet is in line with

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the concept that this has either happened repetitively before, and produced the planets as they are, or that these are warnings that we have heeded time and time again and forged unified societies out of awareness.

With *all* of this book's contents in mind, we can then venture into Chapter 1 of Genesis.

## E. Genesis

I would say that the Bible does not come with an instruction manual on how to interpret it, but it does. *The universe*. The instructions are *written in the cosmos*. If we approach it before reading the instruction manual, we will not see the literal accuracy of the text, but rather will see it through a *completely different lens* that makes it either ludicrous or something we simply choose to accept at its face value. With all of the above discussions in mind, the six days of creation take on a completely different meaning.

### *Genesis 1:1 (NRSV)*

*"In the beginning, God created the heavens and the earth,"*

It is interpreted that Genesis Chapter 1 is describing the process that would occur for Venus to become the new Earth.

In verse 1, we run into an easily overlooked *nuance* of the chapter. Specifically, the Hebrew text's *literal* translation begins *bereishit* or *בְּרֵאשִׁית*, which means "*In beginning*" rather than "*In the beginning*." The definite article of "*the*" is not within the word, but has been *interpreted* to be *implied*.

This is an extremely critical nuance. In fact, that something so substantial occurs in the first Hebrew *word* is a testament to the degree that the original message has been *lost in translation*. The difference is non-trivial, as one only requires *a* beginning while the other requires *the* beginning. *Many* things could explain a beginning, while only *the* beginning explains the beginning. A truer interpretation *allows for* the text to be referring to *a* beginning, for example when Earth became *habitable*, such as if Venus were to become the new Earth.

Similarly, the Hebrew word *סָרָא*, interpreted as "*created*", also can be translated as "*shaped*." In much the same way, the meanings are very similar but one is narrower than the other.

If the planetary supernova of Mercury occurred in the past, this process would have changed the planets so that Mercury *became* Venus, Venus *became* Earth, and Earth *became* Mars. And so "*the heavens and*

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the earth” would have been “shaped” “in [a] beginning.”

### **Genesis 1:2-5 (NRSV)**

*“<sup>2</sup>the earth was a formless void and darkness covered the face of the deep, while a wind from God swept over the face of the waters. <sup>3</sup>Then God said, ‘Let there be light’; and there was light. <sup>4</sup>And God saw that the light was good; and God separated the light from the darkness. <sup>5</sup>God called the light Day, and the darkness he called Night. And there was evening and there was morning, the first day.”*

We run into the same concerns immediately. Indeed, this is a glimpse of the process of careful analysis necessary to scientifically analyze the Bible. We cannot just read a translation at its face value and expect to see the intricacy of detail hidden within. Like diamonds being buried deep under the layers of the Earth, so too are the gems of reality hidden *under the layers*. If we expect to find them, we must *dig*.

Let us step away from Genesis for a moment. The entire process is one of careful diligence and persistence, going at a snail’s pace through every most nuanced of detail while simultaneously exploring as many diverse topics for both resolution and “image size.” And then, on top of that it is extremely difficult—*impossible*—to navigate all the possible meanings and find a thread of understanding through them all if we are using the text itself as the primary source of how to interpret it. No matter what we do, we are using *our own knowledge and experience* and applying it to the text to ascribe a meaning—or lack thereof—that is based on what each of us already knows.

This is why it is vital to have an expansive awareness across as much of reality as possible, to glimpse the sheer extent of *artistry* and the magnitude of *mastery*, of *attention to detail*, of overwhelming *omnipotence* that is hidden behind the words. And *between* the words. What is *not* said is equally as critical to consider, and *its* role in the *story of life* is just as important as the text itself, though much more subtle. They are alike to infinity and zero; the same, but opposites.

For example, it is not by accident that the text has come to us in such a way where it just *exists* and leaves it to the reader to decide what it means. If we are not open, then we will find reason to not take it seriously and not truly *investigate* what its place in reality is. If we are *too* open, then we will not question sufficiently to find answers, and will not dig deeply enough to find the eye of the storm. Only when we are centered, open but questioning always, do answers reveal themselves. Indeed, in the Bible’s very nature, *human* nature—manifest through the entire spectrum



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of reactions we have to it—is encoded within. Not in the words, but *between the lines*. Everything that we know can be *related* to understanding the Bible.

Someone may say here that *man* wrote the Bible. Yes. And he didn't. Both are equally true while opposites. Behind everything is God. This is an important characteristic of the Bible's intricacies. *Even though* it is written by man, there is a message from God that is hidden in plain sight.

Without the careful and thoughtful study of a wide range of aspects of reality, the message is unnoticed because we are only listening to a *part* of God to receive the message. Like a radio, we must tune in to the *right frequency*—∞ and 0, which are the same yet different—to hear. As we approach the frequency, the channel becomes clearer. Slowly at first, then expediting until perfect and crisp clarity as we hone in on the dial of what we ourselves are tuned into.

Regarding verse 2, firstly the New Revised Standard Version says the earth “*was*” a “*formless*” “*void*”. The original words here in Hebrew are *הָיָה*, *וָהָיָה* and *וָהָיָה*, which are defined as “*to fall out, come to pass, become, be,*” “*formlessness, confusion, unreality, emptiness,*” and “*emptiness, void,*” respectively. Even more complex, it is worth noting that the Hebrew alphabet used in scripture is not *always* written with accents. The accents are functionally *vowels*, known as *niqqud*, and distinguish between alternative pronunciations, and thereby *meanings* of each word. In many instances, the vowels have been *inferred*. In other words, there is an element of translation to even this degree that compounds the issue of understanding. Therefore, it is very important to remain open in our search and not expect to immediately have explanations for everything we come across sequentially. This also makes it that much more important to have a “*big picture*” approach to decipher more options of what the true meaning *may* be. If we do not have the awareness to draw upon, then we will not be able to even consider whether something brings clarity.

From the interpretation of Venus *becoming* the new Earth, we can look at Venus to consider if there may be traits that are able to fit within the confines of the text. Importantly, we can take a very *broad* interpretation approach and see if a *single thread of very specific explanation* runs through them all. In this way, the scripture is allowed to be as broad as possible during initial interpretation and a specific scientific hypothesis can be applied. With this in mind, the next portion of the verse is important here: “*and darkness covered the face of the deep, while a wind from God swept over the face of the waters.*”

We know that Venus has a weak electromagnetic field and this is

due to its lack of *rotation* as has been discussed. If a planetary supernova of Mercury were to occur, it would cause a *wind* to sweep across the *atmosphere, liquids, and ethereal substances*. Up until now, we have not delved deeply into the interior of the Earth.

On the surface, everything that we see looks like a sphere where the volume is filled with denser material. Gravity would appear to necessitate this and science is highly founded on this concept. However, if Earth were to have begun to rotate due to this event, it would have immediately begun to fuse particles at the center of the planet. *If* Earth were to be *hollow*, this would mean that where the electromagnetic field lines *merge* at the center of gravity could be an *interior sun*, powered by the flow of particles of the electromagnetic field itself.

This would mean that darkness covered the *face of the deep* until the rotation began and then there could feasibly be a light source for the *face of the deep*. While this is an extremely controversial subject scientifically, there are several reasons that Earth may actually have a hollow center.

While at the edge of a planet all gravitational effects are generally in one direction—towards the planet—and therefore cumulatively strong, the more towards the center of the Earth a position is, the more uniformly distributed the forces of gravity in *all directions*. This would suggest that it may be possible for a second surface to exist and a thick “*shell*” to form, having a high degree of strength from its physical shape like an *arch*. Also, the central region would function like *the eye of a storm*, of not just the planet but of the whole planetary system including the Van Allen belts which act as the disc structure of the “*galaxy*” that is our Earth system.

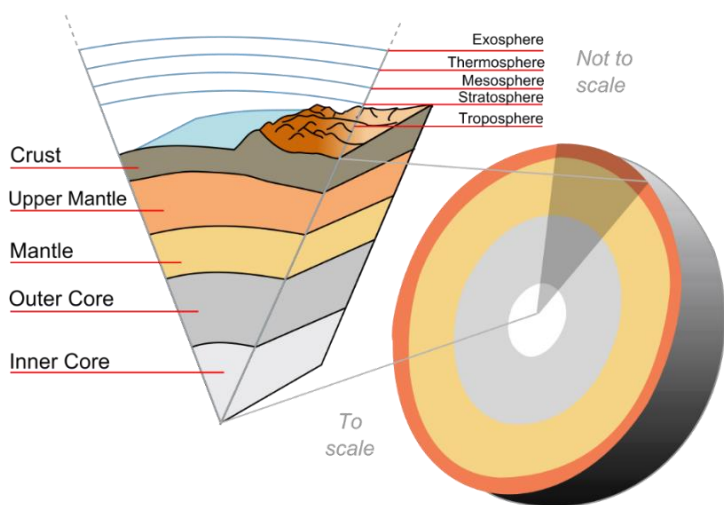


Figure 42: Layers of the Earth

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In simplest terms, current geological theories suggest that the Earth has a crust followed by a mantle and then an outer and finally an inner core as shown in Figure 42 above.

Interestingly, there are two types of seismic waves which can occur in earthquakes: *p-waves* and *s-waves*. S-waves are caused by *shearing* and only can travel through solids whereas p-waves are caused by pressure and can travel through solids, liquids, and gases. It has been found that s-waves can only travel through a certain amount of the Earth whereas p-waves can make it all the way through, but after that same radial distance inward they are *refracted* by a boundary, as is shown in Figure 43:

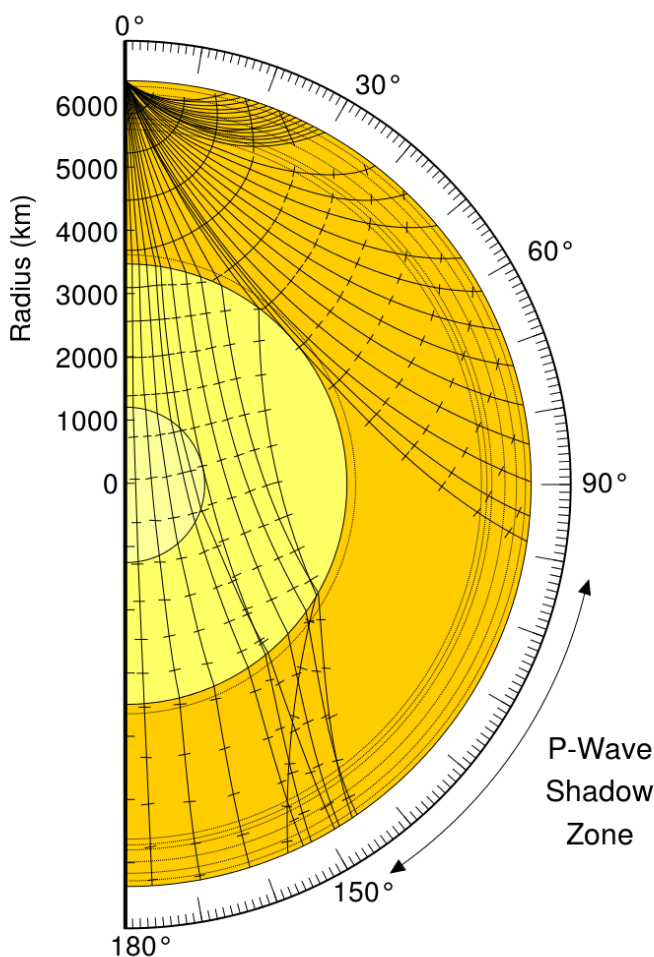


Figure 43: Propagation of *p-waves* and *s-waves* through the Earth from a hypocenter.

These are central to the current models of the inner structure of the

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Earth. From the origin point of an earthquake, known as the hypocenter, it has been found that the *s-wave* can only propagate up to  $105^\circ$  resulting in an *s-wave shadow* formed. This is due to an inner section of the Earth through which *s-waves* cannot propagate. On the other hand, *p-waves* have been found to be *refracted* by the inner section of the Earth, showing a change in density. This results in a *p-wave shadow* that forms from  $105^\circ$  to  $140^\circ$  in each direction from the focus of an earthquake.

So, it is *known* that there is an inner section, which we *call* the “outer core” where *s-waves* cannot propagate and therefore it is liquid or gas. It is important to note that this has been *concluded* to be liquid because *current models assume the Earth to get more and more dense* closer towards the center of the Earth and therefore *must* be liquid rather than gas. While this may be the immediate conclusion, as mentioned above the force of gravity would *decrease* nearest the center. Moreover, it has been assumed that the liquid state of the core plays a role in the production of the electromagnetic field *but it does not*. As has been elaborated on herein, it is the *rotation* of the system of the Earth which produces our electromagnetic field, *not* due to some particular makeup of the interior of the Earth.

Additionally, *p-waves* are detected to be refracted by a central region *known as* the “inner core.” This matches the predictions of a high-density region caused by the merger of the flows of the electromagnetic field particles.

The core-mantle boundary, also known as the D” layer, provides clues to whether or not the Earth could be hollow. As this boundary is where *s-waves* cannot propagate, if it is hollow then this boundary is the *inner crust*. What is most fascinating about this layer is that it is not smooth, having elevations and depressions. It is evidenced to be more solid than liquid due to ultra-low velocity zones where waves propagate slower relative to the mantle. It has been proposed, even, that the structure of the core-mantle boundary may turn out to be *as complex as Earth’s surface*.<sup>68</sup>

The ultra-low velocity zones are found to occur within only a few *tens* of kilometers *prior* to the core mantle boundary<sup>68</sup>. If the Earth is hollow and has a second interior surface, it would be the last portion of the mantle prior to the “outer core.” Moreover, it would have a similar make-up to the surface which we know. The outer crust of Earth is between 5-10 kilometers for oceanic crust and 30-50 kilometers for continental crust.

Additionally, there is a statistical correlation between the locations of *hot spots* at the surface of the Earth and these ultra-low velocity zones and the D” layer.<sup>69,70</sup> If there is an *interior crust* at the core-mantle boundary *and* the Earth is hollow, *then* the gravity along the surfaces

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would be generally *towards the center of the mantle*. This would cause the interior surface layer where it is thickest—similar to the continental plates versus the oceanic plates—to physically put pressure against the mantle and thereby *produce hot spots*.

The observations do not disprove a hollow Earth. In fact, they even seem to *corroborate* the concept. I do not “care” one way or the other. I simply want to know what the truth is. It is important to note that we cannot *see* what is going on down there, only *feel it out* through earthquakes. It is an extremely complex process, to decipher the inner workings of the Earth from seismic data. If we go about the process built on the assumption that it must follow a general pattern of increasing density all the way inward regardless, then this is how the model will be built. However, if we consider that *maybe* there is some way that the Earth *could* be hollow, as discussed above, then we allow that option to be a possibility that we take seriously just like any other proposal. The boundary of the mantle and outer core is extremely critical to the process because *if* the Earth is hollow, *then* this is the precise position of the inner surface. Therefore, with the “*inner-sun*” and the inner surface each having verifiable explanations we can “triangulate on” the Earth’s *mechanics*, like an earthquake’s point of origin.

For these reasons, the best explanation for what *the face of the deep* is referring to, if it is an accurate, literal, and complete description of *Genesis*, is that the Earth is hollow and the central region did not have a source of light. The evidence for the hollow Earth is notable in this instance. It is important for science to *consider the possibility* of theories that can be traced to seemingly biblical origins, even in spite of not understanding how something may be occurring. This back-and-forth process between several disciplines acts to “*iron out*” the details. When the mechanics of something is not understood, but can potentially bring clarity because we arrive there from a logical and reasonable step-by-step approach, then as has been shown the question tends to be *how*?

Verses 3-5 are repeated here for reference:

*“<sup>3</sup>Then God said, ‘Let there be light’; and there was light. <sup>4</sup>And God saw that the light was good; and God separated the light from the darkness. <sup>5</sup>God called the light Day, and the darkness he called Night. And there was evening and there was morning, the first day.”*

For the time being we can just ask if a planetary supernova of Mercury would cause the effects described specifically to Venus. After the *wind swept over the planet* in the second verse, pushing it to a new orbit and potentially causing it to rotate, an electromagnetic field would be

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produced. Whether the outside of the planet would observe day and night we will come back to.

The creation of an electromagnetic field from the rotation of the planet would produce an inner star. In many ways, light and how it illuminates the planet would change and so interpreting exactly what the verses are referring to is more difficult. In such a case, it is useful to thoughtfully consider what each word may mean and simply *move on*. Like a solid versus a liquid, some material will be more easily *grasped* than others in a given relationship.

Notably, even though Venus is covered in an extremely thick atmosphere, it is known to not be *dark* at the surface. This eludes to the possibility that there may be something more than meets the eyes regarding the light being separated from the darkness. From a hollow Earth perspective, it could be that the center of the planet is “Day” where there is light all around whereas the outer crust is “Night” where it is shrouded in the darkness of the cosmos. Regarding evening and morning, this implies that the rotation of the planet would induce day and night to come about. Whether or not this would be in reference to the *inner surface* or the *outer* is unclear and requires more context. Indeed, the process is a matter of expanding the context outward further to include the whole chapter, then the whole book of Genesis, then to the old testament, and then to include the new testament. Context does not stop at the boundaries of a single Bible being read from, but extends to all others. It does not stop at all Bibles, but rather goes further and further outward. Context includes *everything*.

Regardless, for a “round” of consideration—like a single motion of an iron across a piece of clothing—we can venture through the rest of the first chapter of Genesis for more possibilities.

### ***Genesis 1:6-8 (NRSV)***

*“<sup>6</sup>And God said, ‘Let there be a dome in the midst of the waters, and let it separate the waters from the waters.’ <sup>7</sup>So God made the dome and separated the waters that were under the dome from the waters that were above the dome. And it was so. <sup>8</sup>God called the dome Sky. And there was evening and there was morning, the second day.”*

Using a similar process, the term for “*dome*” can also be translated as “*firmament*.” At first glance, this can be interpreted as separating the atmosphere and the waters of the seas. However, it is noted that this could also be a description of the separating that occurs between the *inner crust* and *outer crust* where each side has its own waters and the *dome*, or

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*firmament*, is the mantle and crust itself rather than the sky. This brings the fact that the dome is called “*Sky*”, of course, to attention.

In Hebrew, the word written as “*Sky*” is שָׁמַיִם. This appears at many other places in scripture and is almost always translated as *heaven*. If we consider that the mantle and both crust surfaces are called *heaven*, then this would mean *we are living there*. Both surfaces of the Earth would be part of the dome and so each would be heaven. In fact, if the planetary supernova of Venus were to have occurred in the past to transform our planet to habitable while largely destroying the habitability of Mars, the civilization on Mars would have likely seen the interior of Earth as the only place to safely be protected from the environment. This would suggest that if the Earth is hollow, then there is a civilization within it that *understands the nature of reality*. A civilization that is *watching over our own* as we go through the same process. And such a civilization would be potentially built of those who we think of as “*dying and going to heaven*,” living in a stage of remembrance of their time on *this* surface as they are born again on *that* surface. In other words, existing in the *same* three-dimensional coordinate system as ourselves, not in some *other* place, where they very literally *watch* over our growth and progress like a parent over a child. Offering gentle guidance while allowing autonomy.

There are many possibilities and if we do not consider them then we cannot draw conclusions except in haste. While these interpretations greatly counter our societal perspectives as these concepts grow with increased specificity, they are built on the physical nature of reality as a foundation of understanding to then expand upon. The same can be said here as in physics where finding a *ground-level* is pivotal, where models which are held as true may actually be completely opposite to the conclusions of a proper ground-up approach. So, too, does finding the ground level of understanding of reality in general apply here as a means for deciphering more distant meaning hidden in scripture. Just as in physics, when we start with the distant observations, we will draw approximations that do not match reality. When we *extend outward* to them from the ground-level, then they can be encompassed in accuracy.

### ***Genesis 1:9-13 (NRSV)***

<sup>9</sup>*And God said, ‘Let the waters under the sky be gathered together into one place, and let the dry land appear.’ And it was so. <sup>10</sup>God called the dry land Earth, and the waters that were gathered together he called Seas. And God saw that it was good. <sup>11</sup>Then God said, ‘Let the earth put forth vegetation: plants yielding seed, and fruit trees of every kind on earth that bear fruit with the seed in it.’ And it was so.*

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<sup>12</sup>*The earth brought forth vegetation: plants yielding seed of every kind, and trees of every kind bearing fruit with the seed in it. And God saw that it was good. <sup>13</sup>And there was evening and there was morning, the third day."*

Repeatedly, the same theme occurs where "God" is *saying* or *seeing* things occur. We know that *God is Unlimited*. Everything is God. This language suggests that there is something *more than meets the eye* behind the "God" of scripture. It implies that there may have been a society to form on the outer part of the planet which *perceived* what they called "God". In other words, it suggests that in Genesis "God" *is a being existent in three-dimensional space who physically sees and says these things*. This is important from a *contextual* standpoint as well. As a result, this particular being exists in one particular location.

If there were to be a society which physically moved to the center of the Earth, it is possible that at least one of them could have functioned to be perceived as "God." This would mean that when God *says* 'Let the waters *under* the sky be gathered,' what this is referring to is perspective-dependent, meaning that the waters *on the opposite, outer surface of the Earth* are gathered. Then, the Earth would have seas and dry land, as this would be in a time *before* the Earth physically expanded. Due to its rotation and stripped atmosphere, the planet would then have an electromagnetic field and a surface temperature where it would be capable of beginning to bring forth vegetation. How exactly this all occurs in a short time span is unclear. However, as has been discussed regarding the *time span* of the planetary supernova of Mercury as being *seven days* regarding Nostradamus and Jeremiah prophecies, it is possible that the process occurred in *an actual, perceivably short time span as described*.

Notably, "God" says "*let*"; implying that it is up to the *environment* whether it "*lets*" such occur. This means that the inner Earth civilization could actively play a role in seeding the planet. We may think of "*letting*" something happen as a *passive, inactive* act of complacency. However, it can *also* include an *active* act of taking part in something so as to allow the result to occur. *Letting* the energy from focus on *all* flow through oneself by taking action for all.

### ***Genesis 1:14-19 (NRSV)***

*"<sup>14</sup>And God said, 'Let there be lights in the dome of the sky to separate the day from the night; and let them be for signs and for seasons and for days and years, <sup>15</sup>and let them be lights in the dome of the sky to give light upon the earth.' And it was so. <sup>16</sup>God made the two great*



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*lights—the greater light to rule the day and the lesser light to rule the night—and the stars. <sup>17</sup>God set them in the dome of the sky to give light upon the earth, <sup>18</sup>to rule over the day and over the night, and to separate the light from the darkness. And God saw that it was good. <sup>19</sup>And there was evening and there was morning, the fourth day.”*

In verse 14, “*in the dome of the sky*” can be translated as *in the extended surface, or expanse, of heaven*. In such a case, *heaven* is maintained as the Earth’s two-surfaced spherical mantle and crusts where the *expanse* is *the cosmos*. Moreover, verse 15 has the same language. Notably, *this is the first appearance of light in our sky*. It is as if the planetary supernova of Mercury caused a blackout of the surroundings as this process occurred which caused there to only be visible light from the cosmos after “*the dust had settled*” and the debris no longer physically *blocked* the light from outer sources. This further corroborates with the third verse where there is a *first* instance of light. The rotation of the planet would immediately begin to produce light from the resultant merging flows of particles while it would not be until days after when the outer sources of light could be seen, such as the sun.

Regarding the “*two great lights*”, it may be that one is the “sun” where the other is the “moon.” However, it may also be that one is the sun and the other is the *black sun*, as has been discussed. Verse 17 uses the same language of “*in the dome of the sky*,” implying that the objects are positioned *in the cosmos*.

### **Genesis 1:20-23 (NRSV)**

*“<sup>20</sup>And God said, ‘Let the waters bring forth swarms of living creatures, and let birds fly above the earth across the dome of the sky.’ <sup>21</sup>So God created the great sea monsters and every living creature that moves, of every kind, with which the waters swarm, and every winged bird of every kind. And God saw that it was good. <sup>22</sup>God blessed them, saying, ‘Be fruitful and multiply and fill the waters in the seas, and let birds multiply on the earth.’ <sup>23</sup>And there was evening and there was morning, the fifth day.”*

The “*fifth day of creation*” of Genesis is focused on specifically bringing living birds and sea animals. Referring to the path we have taken as being cyclical, then this would suggest that a society that moved to the center of our present Earth from Mars *also* was advanced in biological understanding. While we may perceive genetic engineering and such concepts as *wrong*, everything is part of the picture. It is “wrong” in some ways, bringing about some degree of chaos as a result, but it is also part

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and parcel to reality. It is possible that a sufficient understanding would bring about perfected capacity to bring forth life where we function in our truest capacity *as God*.

Our evolving understanding of genetic engineering, and anything for that matter, functions like a supernova where a highly unstable system supernovas and results in a highly *stable* system with the *excess waste* physically removed from the system. It may be that this results in our fundamental understanding that not only *can* we do this, but it is a direct *reason* we are here in that we *did it in the past*, for all things are cyclical.

We *are* God, after all, as everything is. It would only make sense if we also act *as* God even in the most literal sense by populating a new planet with its living beings.

### ***Genesis 1:24-31 (NRSV)***

*“<sup>24</sup>And God said, ‘Let the earth bring forth living creatures of every kind: cattle and creeping things and wild animals of the earth of every kind.’ And it was so. <sup>25</sup>God made the wild animals of the earth of every kind, and the cattle of every kind, and everything that creeps upon the ground of every kind. And God saw that it was good.*

*“<sup>26</sup>Then God said, ‘Let us make humankind in our image, according to our likeness; and let them have dominion over the fish of the sea, and over the birds of the air, and over the cattle, and over all the wild animals of the earth, and over every creeping thing that creeps upon the earth.’*

*“<sup>27</sup>So God created humankind in his image, in the image of God he created them; male and female he created them.”*

*“<sup>28</sup>God blessed them, and God said to them, ‘Be fruitful and multiply, and fill the earth and subdue it; and have dominion over the fish of the sea and over the birds of the air and over every living thing that moves upon the earth.’ <sup>29</sup>God said, ‘See, I have given you every plant yielding seed that is upon the face of all the earth, and every tree with seed in its fruit; you shall have them for food. <sup>30</sup>And to every beast of the earth, everything that has the breath of life, I have given every green plant for food.’ And it was so. <sup>31</sup>God saw everything that he had made, and indeed, it was very good. And there was evening and there was morning, the sixth day.”*

Similar to verses 20-23, the same concepts can be extended to not just other life but to *human life itself*. This would mean that we are *our own creator*. Which we *are*, as *God*.

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It is noted that it is explicitly mentioned that “*to every beast of the earth...I have given every green plant for food.*” At several other portions of the text the concept that *the wolf and the lamb shall lay down together* is mentioned. We can immediately conclude that the text is wrong for claiming *all* “beasts” to eat plants, however it is also possible that there is *more than meets the eye* going on. If all things function in a wave-like nature going from *infinity* to *zero* and back, then it stands to reason that there would be *phases of peace amongst the animal kingdom*.

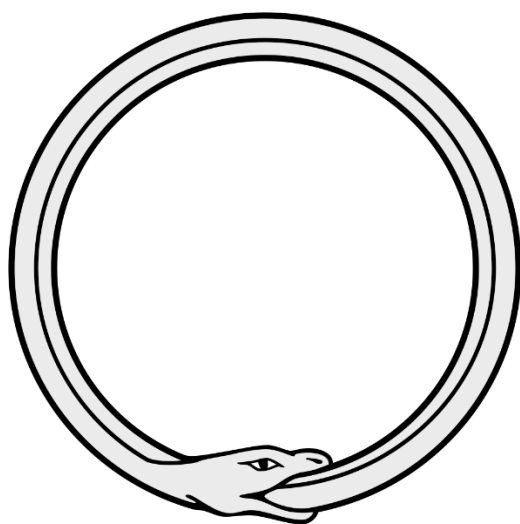
We can assume that animals are *less* conscious than ourselves, however this is an assumption. *All things are equal*. It is reasonable to conclude that, in light of the discussions in this book and much more, there would be a period where all the threads of our infinite journeys come together into a single “*conclusion*” where we arrive at the same place, together as one. For we are all equals and animals, plants, insects, and every aspect of reality deserves their voices through all means of communication to be heard.

## F. Endings

There is no beginning nor ending. Like the snake eating its tail, reality goes round and round eternally. This is expressed by the *Hare Krishna* mantra:

*“Hare Kṛṣṇa Hare Kṛṣṇa  
Kṛṣṇa Kṛṣṇa Hare Hare  
Hare Rāma Hare Rāma  
Rāma Rāma Hare Hare”*

Particularly, this mantra *wraps around itself*. So that you can begin it from any word and you will ultimately end up saying the same pattern of characters over and over, regardless of where you begin. The same combination of “*Hare*” and “*Rāma*” exists as “*Hare*” and “*Kṛṣṇa*”. A sequence of three of a first, one of a second, one of the first, three of the second, followed by a sequence of three of the first, one of the *third*, one of the first, three of the *third*. Or any starting sequence of this. Though in the above order it begins with a single “*Hare*”, which gives it the appearance of not being a mirrored sequence, it is connected to the final two “*Hare Hare*” from the tail end, producing a seamless transition so that there is no real beginning, only *a* beginning, and no real ending, only *an* ending. Life is full of beginnings, and yet it has no beginning.



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