

# INFINIVERSE

## THEORY OF EVERYTHING

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# INFINIVERSE

## THEORY OF EVERYTHING

## Chapter Three: The Forces Unite

# INFINIVERSE

THEORY OF EVERYTHING

# CHAPTER ONE



# PARADIGM SHIFT

In order to understand the true nature of the Universe, you have to first step outside the box. No, really, a box is not a box. A box is an object composed of an unimaginably large amount of atoms that form an overall appearance of something mankind has labeled a box. We have invented the word box to describe objects with “box” like characteristics, but in reality, a “box” is not a “box”. It is... well there is no name for it. It just is.

We have fabricated measurements to try and make sense of our “box” but our foundations inevitably collapse from contradictions. For example, if we would like to find the volume of our “box” we would multiply it's length, height and width and determine it's volume in cubes.

As simple and obvious this seems to most people, it does not exemplify true reality. From observations of our micro cosmos, in the field of quantum mechanics, we have never ascertained any conclusive evidence objects are composed of cubes. Atoms are the “building blocks” of the Universe but they

are actually spherical in nature. A more correct term for atoms would be the  
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“building spheres” of the Universe. If we were to try and find the volume of our “box” again using spheres instead of cubes, we realize the volume of our “box” is actually infinite. You can never completely fill the volume with spheres no matter how large or small the spheres may be.

Anything that leads to infinity is either discarded or it has to go through renormalization. We cannot except the fact that everything in existence has infinite volume. If this is true, it would mean everything in existence is infinitely large and infinitely small at the same time. We do not understand how this is possible so we have renormalized the volume of our “box” with cubes instead of spheres. Until we can develop a form of geometry that can accommodate the nature of reality, the very foundation of Euclidean geometry is only a renormalization of true existence.

Physicists will respond to my above paradox with, “It is not possible for an object to have infinite volume because of the Planck length.” The length is  $1.6 \times 10^{-35}$  meters and can be determined from the speed of light, Planck's constant, and the gravitational constant. It should be made very clear that the Planck length is only a hypothetical measurement. There has never been any

evidence the Universe mysteriously ceases to exist at any length less than  $1.6 \times 10^{-35}$  meters.

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According to Euclidean geometry, we live in a Universe of at least three dimensions, not one. The length of  $1.6 \times 10^{-35}$  meters implies there must be a height and width of this size as well. Until we find an elementary particle, that for some reason favors a cube instead of a sphere, there will always be infinite volume beyond Planck's length. From an atom to a planet, a planet to a solar system, a solar system to a galaxy, nothing resembles a cube.

There is an exciting and relatively new form of geometry that can offer compelling evidence the Universe is infinite. Fractal geometry is now believed to be the true geometry of nature by many of our modern day mathematicians.

Fractal geometry was pioneered almost singlehandedly by Benoit Mandelbrot, a professor of mathematics at Yale University. Like most revolutionary discoveries, when Mandelbrot first published his concepts of fractal geometry, it was scornfully ridiculed by his colleagues and was viewed as just insignificant designs produced by a computer. It wasn't until Mandelbrot decided to reply to his critics by publishing his book, *The Fractal Geometry of Nature*, that many mathematicians began to realize the true implications of fractal geometry.

Within Mandelbrot's book he demonstrated how fractal geometry could precisely measure natural shapes and make calculations that could be applied to all kinds of natural formations. From the landscape of mountains to the movements of clouds. His book convinced us that fractal geometry is not just artwork, it is new science in the making that offers unprecedented ways of perceiving the Universe.

*“Clouds are not spheres, mountains are not cones, coastlines are not circles, and bark is not smooth, nor does lightning travel in a straight line.”*  
*Benoit Mandelbrot: The Fractal Geometry of Nature (1983).*

Mandelbrot's fractals reshaped our concepts of geometry similar to how Einstein's theories of relativity warped our Newtonian view of physics. Before Mandelbrot, mathematicians believed most of the patterns in nature were far too complex and amorphous to be understood mathematically. We

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now live in a world in which we can use fractal geometry as a foundation for the “building spheres” nature has so graciously provided.

Fractals are objects that display self-similarity at various scales. As you zoom into a fractal you see small-scale formations that are similar to the original large-scale characteristics, but the small-scale formations are not identical to the whole. If you started zooming into a Mandelbrot set fractal with a computer program when you were born and never stopped you would still be able to zoom into the formation. In fact, you could continue zooming into the fractal for eternity, the formations are infinitely complex. By using a simple, yet elegant formula, similar to Einstein's equation  $E=MC^2$ , Mandelbrot was able to create his magnificent fractals on command. The Mandelbrot set formula is  $f(z) = z^2 + c$ .

Einstein's mass to energy conversion equation and the Mandelbrot set formula are what I like to call “triple circuit” equations. By using triple circuit equations, fractal geometry, and the concepts I provide within this book, we can create a computer program that can simulate the true nature of the Universe. We can have the freedom to “travel” within this artificial Universe to any destination regardless of distance and we can do this at any size scale we desire. By simply zooming into or out of a galaxy it will simulate time dilation and we can view anything we want in “real time”. We can have complete control of an artificial Universe at our fingertips. Would you like to take the red pill or the blue pill?

You may be wondering, “If the Universe is infinite like Mandelbrot set fractals, the Universe would be infinitely complex as well. How could a single computer have the capacity to execute a program with the capabilities you claim are possible”? The key lies within triple circuits. In preceding

chapters of this book I explain how the Universe is constructed from numerous triple circuits. I know at this point it is confusing for you to understand how this is possible, so to help you understand, I will give you some brief examples.

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Going back to the “box” I mentioned in the beginning of this chapter, one of the very first characteristics of our “box” we see is it's color. You may believe the color is purple but the truth is the color purple does not exist. The only colors we organic androids are programmed to see are red, green and blue. As a result, we can recreate an impression of all the colors by using only three electromagnetic wavelengths of light. We see the color purple because the red and blue color cones are simultaneously activated in our retina. Every color we see is a result of only three colors.

By acknowledging there is no such thing as “color” in the Universe we can further deduce another triple circuit. Colors are a product of varying wavelengths of electromagnetic radiation (light). James Clerk Maxwell discovered that light, electricity and magnetism were all part of a unified spectrum of what he called electromagnetism. It is the electromagnetic triple circuit and without it we would not have color in the first place.

From the triple circuit equation  $E=MC^2$  we know that we can produce a relatively small amount of matter by colliding two extremely energetic beams of electromagnetic radiation. This has been experimentally proven by Adrian Melissinos. Every atom has a proton neutron and electron (and every proton and neutron can further be deduced into three quarks).

We know this atomic triple circuit as hydrogen. When two hydrogen circuits combine it forms helium. Three hydrogen circuits form Lithium, and so forth to form all of the elements in nature. These elements will combine in a way that can be expressed with fractal geometry and form materialistic objects mankind can manipulate. By now you should have a basic understanding of what I mean by triple circuits, but until I discuss them in further detail it is important for you to understand our current foundation in physics.

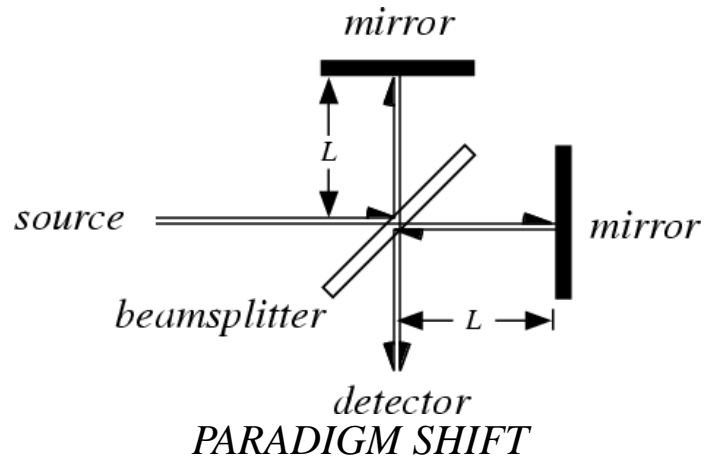
From James Clerk Maxwell's equations, he was able to determine electromagnetic radiation propagates through space as a wave.

It was assumed that, just as sound waves need a medium (such as air) to travel, light should have a medium of “luminiferous aether”. If space were not full of luminiferous aether, we would not be able to see the light waves emanating from the sun on Earth. This launched one of the most famous failed experiments in the history of physics, the Michelson Morley experiment.

The Earth travels around the sun at a speed of around 108,000 km per hour while the sun it's self travels about the galactic center at even greater speeds. Since the Earth is in motion, it was expected that the flow of aether across the Earth should produce a detectable “aether wind” of resistance along it's voyage. By analyzing the return speed of light from varying directions, Albert Michelson and Edward Morley assumed it was possible to measure the motion of the Earth relative to the aether wind.

Michelson designed a device, known as the interferometer, that could allow him to detect the flow of aether. The device sent a source of white light through a half-silvered mirror that was used to split the light into two beams traveling at right angles to one another. After leaving the splitter, the light traveled out to the ends of long arms where they were reflected back into the middle on small mirrors. The light recombined on the far side of the splitter in an eyepiece, producing interference based on the time it took to transit the arms. Michelson and Morely fine tuned the apparatus and conducted

numerous experiments attempting to detect the aether wind. After all their thought and ingenuity, the experiment did not show any evidence of luminiferous aether.



Although this experiment may not seem very important, its conclusions are paramount. The fundamental principles of the Universe can only lie within three possible foundations the experiment had divided. In foundation one the speed of light is constant, in foundation two the aether has characteristics that evade detection by an interferometer, and in foundation three the aether simply does not exist.

Most people know our current view of the Universe is constructed from the first foundation. The majority of physicists pursued this foundation with Einstein's special theory of relativity, which is based upon a postulate that states the speed of light is constant. Eventually, with Einstein's general theory of relativity, it was accepted that space-time could eliminate the need for luminiferous aether.

Not many people know, however, that the second foundation was pursued by another revolutionary scientist named Nikola Tesla, who believed there is "zero point energy" (dark energy) which fills all of space. Tesla is

one of the greatest inventors to have ever walked the Earth. The use of alternating current, florescent lighting, radio, remote control, robotics, and a total of over 700 patents can all be attributed to Nikola Tesla. Contemporary biographers of Tesla have deemed him “the man who invented the 21<sup>st</sup> century”. It is important to understand the first and second foundations, and in the next chapter, I will demonstrate how “zero point energy” is in fact luminiferous.

According to the first law of thermodynamics, energy is infinite, it can never be created nor can it be destroyed. This law has become one of the most secure of all the basic laws of science. Since we have experimentally confirmed energy can be converted into mass we also know that mass is infinite. Mass and energy are both different manifestations of the same thing. Since energy and mass are infinite, there must be an infinite amount of space

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for them to exist. Coincidentally, if energy, mass and space are infinite, they must exist for an infinite amount of time.

Einstein had an extraordinary ability to combine what was thought before as separate concepts into new and usable concepts in physics. With Einstein's special theory of relativity, he combined mass and energy with his equation  $E=MC^2$  and in his general theory of relativity, he combined space and time into what is known as the spacetime continuum. By doing this, Einstein was able to take four infinite entities of the Universe and merge them into a dual circuit and not a triple circuit.

Currently, the inability to combine quantum mechanics with the general theory of relativity is one of the most crucial problems we have in physics. The main reason we can not do this is because gravity seems to explain the movements of the macro cosmos just fine, but when we apply it to the movements of the micro cosmos it becomes negligent.

According to Einstein's theory of gravity, mass has the ability to curve the fabric of space-time and other objects with less mass will orbit the space-time curvature. To make things more difficult, we have been able to

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experimentally prove Einstein's theory for gravity is correct because light curves around massive objects in space. Any new theory for gravity that can unite the micro and macro cosmos must be able to explain this phenomenon as well. Many quantum physicists acknowledge our current dilemma and are working on theories for “quantum gravity”.

Although Einstein's theory for gravity can explain the motions of our solar system, as we zoom out from the solar system to a galactic size scale his theory for gravity cannot explain the motions of galaxies either. We now know, according to General Relativity, each galaxy must be engulfed in dark

matter, suggesting about 23% of the Universe is missing.

Einstein was not satisfied with his theory for gravity because it lead to singularities and black holes. He spent the last two decades of his life trying to develop a theory for gravity that could be united with the electromagnetic force. In following chapters, I will show you an alternative theory for gravity that can explain the motions of the micro and macro cosmos. It can unite all of the fundamental forces of nature into the electromagnetic force, explain why light curves around massive objects, and can ultimately reveal how to produce anti-gravity. It is only when one combines the wisdom of both Einstein and Tesla a comprehensive Theory of Everything is possible.

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Tesla believed there is no such thing as “time”. Although time can in fact be manipulated, he believed it is a measurement we have created for our convenience and that it lacks any physical properties. To him, combining space and time into space-time was similar to combining distance and time into velocity. He also believed, however, that space is not “nothingness” as most people imagine it to be. According to him, there is an omnipresent “zero point energy” which fills all of space.

*“I have worked out a dynamic theory of gravity in all details and hope to give this to the world very soon. It explains the causes of this force and the motions of heavenly bodies under its influence so satisfactorily that it will put an end to idle speculations and false conceptions, as that of curved space.”*  
-Nikola Tesla

Although Tesla claimed he had “*worked out a dynamic theory of gravity in all detail*” he unfortunately passed away before he could publish his work. In 1943 Tesla was living in the Hotel New Yorker and at that time he was experiencing dizzy attacks due to his weakening heart. On the evening of January 5<sup>th</sup> he ordered not to be disturbed and went to bed. It was common for him to tell the staff he did not want to be disturbed for two or three days at a time, but this was the last time he would be seen alive. Tesla died some time between January 5<sup>th</sup> and January 8<sup>th</sup> of heart failure and was found by a maid on January 8<sup>th</sup> 1943.

In 1940 Tesla gave an interview to the *New York Times* that was published on the 22nd of September:

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*“Nikola Tesla, one of the truly great inventors, who celebrated his eighty-fourth birthday on July 10, tells the writer that he stands ready to divulge to the United States Government the secret of his 'teleforce' with which he said, airplane motors would be melted at a distance of 250 miles, so that an invisible Chinese Wall of Defense would be built around the country.”*

It is not certain if Tesla had in fact developed a 'teleforce' weapon, but as you can imagine, it caused a lot of controversy. After Tesla passed away a Memo was sent out from J Edgar Hoover instructing that “*all matters connected with the late Nikola Tesla are to be handled in a most secret fashion in order to avoid any publicity in respect to Tesla's Inventions and that every precaution be taken to preserve the secrecy of those inventions*”. His work became top secret and discussion of it was forbidden. Tesla's dynamic theory of gravity was probably among the two truckloads taken from his hotel by Alien Property Control, but there is no way of knowing for sure because his work is still unavailable under the FOIA.

Although Tesla's work is not available for the public, some of his concepts are still documented. His foundation has paved the way for plasma cosmology, pioneered by Hannes Alfvén (1908-1995), the winner of the 1970 Nobel Prize in Physics. Like fractal geometry, plasma cosmology has made us reevaluate our current physical paradigm.

According to the works of Hannes Alfvén, *“All this energy (“Zero Point Energy”) comes from the environment and reverts back to matter, forming a “closed-circuit” through one way or another. It is omnipresent, day or night, and is “re-emitted” by every star in our Universe, naturally including our sun.*

You can take two highly conductive metal plates, while grounded so there are no free charges, place them next to each other in a vacuum and they will slowly move closer to each other. This is known as the Casimir effect. The two plates have negligible mass so there is no gravitational attraction, there is “zero point energy” present in the vacuum. The energy density is

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extremely high, estimated to be around  $10^{108}$  J/cc. Since we know space is not “nothingness” we can rule out the third foundation of the Michelson-Morley experiment.

When you look at the graph below, notice “dark energy” is the largest portion of the graph that we need to discover in order to account for our current rate of expansion in the macro cosmos. In the next chapter, I will illustrate the fractal geometric structure of the Universe and demonstrate how zero point energy and dark energy are two different words for the same thing. I will also demonstrate how they are luminiferous. Trying to detect “aether” with the techniques used in the Michelson-Morley experiment would be similar to a modern day physicist trying to detect dark energy with an interferometer.

*“To deny the aether is ultimately to assume that empty space has no physical qualities what-so-ever. The fundamental facts of mechanics do not harmonize with this view. According to the General Theory of Relativity, space is endowed with physical qualities. In this sense, therefore, there exists an aether. According to the General Theory of Relativity, space without aether is unthinkable.” -Albert Einstein (1920).*

As Einstein once said, *“Everything should be as simple as possible, but no simpler”*. The Infiniverse Theory of Everything is elegant and allows you to gain a clear picture of the Universe instead of having to use inductive jargon that only the mathematical privy can understand. As long as you have

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a high school education, you will be able to grasp the mathematics contained within this theory. Everything in the Universe is simple, it is mankind who likes to over complicate our existence.

# INFINIVERSE

THEORY OF EVERYTHING

## CHAPTER TWO

# THE MICRO AND MACRO COSMOS UNITE

Let's say Dr. Wayne Szalinski from *Honey I Shrunk The Kids* is distraught about not receiving the Nobel Prize, so he becomes a serial shrinker and zaps you with his shrinking device. Your mass is now equivalent to an ant and the mad scientist attempts to stomp on you. In Wayne's

perspective, the stomp only took one second, but you had enough time to take a thumb tack, prop it up, and duck under it for safety. Realizing he had just stepped on a tack, Wayne screams in agony. To you, the scream sounded as if it were from Godzilla. Dr. Szalinski then aims his device at you once more and shrinks you to a size so small that you could inhabit a single atom. Although this is all impossible, lets say you remain at this size for thirty years until you finally create your own device and blow yourself back up to normal size. As amazing as this may seem, not even a split second would have passed on Earth while you would of aged thirty years. Who's time would be correct in this situation, your time or Wayne's time? Is time relative to the mass of the observer?

The above question is probably the most controversial question anyone can ask a physicist and probably half the physicists reading this book will slam the cover shut at this point. If we were to discover time is relative to the mass of the observer and not the velocity of light, it would be similar to Copernicus validating the Sun does not revolve around the Earth and we would have to rebuild our current foundation from the ground up. The Lorentz transformation equations of Special Relativity establishes mass becomes a variable when an object travels at relatively high velocity, so we are going to have to face this question sooner or later.

Like Copernicus, I have an alternative foundation. It can lead to  
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interstellar travel, teleportation, free energy, anti-gravity, artificial universe simulation and a complete framework for the Theory of Everything. If you are willing to think outside the “box” I will give you plenty of experimental evidence all the above is possible. If I'm wrong then I'm just another crackpot, but if I'm right, mankind will have total freedom. It has been over a century since Einstein developed the Special Theory of Relativity and there has yet to be a successful Theory of Everything. You have absolutely nothing to lose.

Synchronize two stop watches and duct tape one between the headlights on the outside of your car and place the other watch on the dash inside your car. Next, drive 30 miles on the highway and try to maintain an average

velocity of around 60 miles/hour. Once you reach 30 miles, travel back to your home with the same velocity. The two stop watches would both travel at the same speed and distance relative to one another so velocity, in this experiment, would be the control.

When you compare the two stop watches, the watch that was between your headlights will display a slower time than the watch on your dash. The watch between your headlights experienced more air resistance which caused the watch to expand and tick slower. **BY USING VELOCITY AS A CONTROL AND MASS AS A VARIABLE YOU CAN CONCLUDE TIME DILATION IS A RESULT OF A VARIATION IN MASS BUT YOU CANNOT CONCLUDE TIME DILATION IS A RESULT OF THE VELOCITY OF LIGHT, BECAUSE ACCORDING TO SPECIAL RELATIVITY, MASS WILL INEVITABLY INCREASE AT ANY VELOCITY HIGH ENOUGH TO PRODUCE TIME DILATION.**

Another interesting conclusion from this experiment is that the mass of the watch varied because of resistance. If space were “nothingness” there would be no explanation for an increase of mass and length contraction that Special Relativity indicates in the first place. Later, I will illustrate how dark energy (space) is able to pass through all matter with zero resistance and produce shadows, but when an object is accelerated at relatively high velocity it will experience inertia due to the resistance of dark energy.

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*“According to the theory (Special Relativity), if you have two exactly similar clocks, A and B, and one is moving with respect to the other, they must work at different rates, i.e. one works more slowly than the other. But the theory also requires that you cannot distinguish which clock is the 'moving' one; it is equally true to say that A rests while B moves and that B rests while A moves. The question therefore arises: how does one determine, consistently with the theory, which clock works the more slowly? Unless the question is answerable, the theory unavoidably requires that A works more slowly than B and B more slowly than A - which it requires no super-intelligence to see is impossible. Now, clearly, a theory that requires an impossibility cannot be true, and the scientific integrity requires, therefore, either that the question just poses shall be answered, or else that the theory shall be acknowledged to be false. But as I have said, more than 13 years of continuous effort has failed to produce either response. The question is left by the experimenters to the mathematical specialists, who either ignore it or shroud it in various obscurities, while experiments involving enormous physical risk go on being performed.”-Professor Herbert Dingle (Science at the Crossroads).*

I have seen mathematicians respond to this paradox with pages upon pages of reasoning (which ultimately end up being refuted), but what if the answer can be summed up in a single sentence? A simple answer to this question is the clock that experienced length contraction and an increase in mass would be the clock that was moving relative to the other. Einstein once said, “Since the mathematicians have invaded the theory of relativity, I do  
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not understand it myself anymore.” Sometimes you have to remember we live in a world of “spheres” and not “cubes”. Mathematics is a convenient tool we can use to make sense of reality but observations far outweigh calculations. Again, a variation in the mass of an object becomes the determining factor for time dilation and not the velocity of light.

Not only can EVERY experiment used to verify Special Relativity be explained by a variation in an objects mass (Classical Mechanics), but there are also experiments that can disprove Einstein's principles of relativity. The most famous of of these experiments was described by Sagnac in 1914. (Ref. Sagnac M. G., *J. de Phys.*, 1914, 4, 177-195). Let's say you have a laser and you project the beam of light towards a satellite in orbit around the Earth on which there is a reflecting mirror. The light reflects off of the mirror to other mirrors in space around the Earth until the laser makes a full orbit and reaches the same spot from which it was first emitted. Using this apparatus, you can measure the time it takes for light to make a complete orbit around the Earth. You would find that the time it takes for the light to complete a full revolution from East to West is shorter than the time it would take in the opposite direction. One can easily show that this difference is due to the Earth's rotation.

Einstein's theory claims there is no possible way to detect the absolute velocity of the Earth. However, by using this apparatus from a fixed location on the Earth, we can detect the velocity of the Earth's rotation. The Sagnac effect is currently very useful for devices used in navigation that act as an optical gyroscope. These devices can detect the absolute velocity of Earth's rotation from any location on Earth, contrary to Einstein's claim that light travels in respect to the observer.

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In a four-program BBC series, Michio Kaku conducted a very interesting experiment in which he was able to conclude younger people, on average, actually count time faster than older people. While younger people estimate a minute as 55 seconds or so, older people over estimate it, counting a minute in perhaps 65 seconds. On the surface, this experiment may not seem very important, but it can show evidence that time is related to the mass

of the observer (or measurer as in the case of a clock). A lot of you may remember riding in the school bus as a child and the trip seemed to take a very long time. As you grew older (and increased in size) the same trip does not seem to take as long as it took you when you were a child.

As Sir Issac Newton said, velocity is relative to an objects inertial mass. A cannon ball will take more time and energy to hit a distant target than a bullet. We cannot travel at the speed of light because our mass is obviously much greater than the mass of a photon. In fact, according to the Lorentz transformation equations of Special Relativity, a photon must have zero mass because any mass traveling at light-speed becomes infinite.

The majority of physicists agree a photon must have zero mass (because of Special Relativity), but you can still determine it's relativistic mass with it's wavelength. Even if your mass were equivalent to the relativistic mass of a photon, you would still not be able to travel at the speed of light. Time on Earth would pause relative to your time and you would die before you traveled any significant distance. You could travel at the relativistic mass of a photon from your current location for billions of years and still be somewhere within the Earth's atmosphere upon growing back to normal size. Nothing can ever travel at the speed of light, except for light it's self.

Theoretically, you may be able to travel at the speed of light by converting your mass into energy, teleporting it to a target location, and then reassembling it with fractal geometry. By converting your mass into energy, "time" would no longer exist in your perspective, and you could teleport light years away from Earth. You would not experience time dilation because your mass would no longer become a variable, but this is all strictly theoretical and should not be attempted in your home without the assistance of a licensed

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professional. It may also be possible to travel at the speed of light if you counter the resistance of dark energy (according to my theory of relativity).

For the Infiniverse Theory of Relativity, time dilation can be produced by altering the mass of the measurer, and the velocity of light, regardless if it

is constant or not, does not make a difference. In this foundation, “time dilation” is “clock dilation” and time is not a physical property of the Universe. I know the water might be a little cold at first, but once you jump in it's fine. A lot of you will hesitate because you realize Einstein's theory for gravity and string theory are in jeopardy, but I guarantee this foundation will open more job opportunities than we currently have available in physics. Now that you have your foot in the water, I need to briefly discuss how this foundation can be applied to fractal geometry.

I have divided this particular fractal pattern's zoom into six different frames of reference. Fractal geometry, at this point, has not been combined with physics and therefore does not have “motion” other than the ability to zoom into self similar patterns. If it did have motion, the time in the first frame would be paused (actually extremely slow) relative to the time in the sixth frame due to the size difference. Likewise, the sixth frame would be in “fast forward” relative to the time in the first frame. In frames four and six you can see self similarity, but if we were to continue zooming into the sixth frame it would not constantly produce similarity because each pattern is not identical to the whole.

Since many modern mathematicians say fractal geometry is the “true geometry of nature” we should put their claim to the test in physics. In order to do that, we must find a self similar pattern that will range from the micro cosmos to the macro cosmos. The only problem is time starts to do some strange things at the quantum size scale of the Universe. We have “uncertainty principles” that state that the position and momentum of particles cannot both be known with arbitrary precision. The more precise we are with one variable the less precise we are with the other. Things start to disappear and reappear in different locations and they can be located in two

different places at the same time.

It would be nice if we could say photons travel as waves, or if we could say they travel as particles, but they are nature's most radical nonconformist. They have the characteristics of both a wave and a particle, known as wave-particle duality, and many physicists just throw their hands up and call them a "wavicle".

In 2001, Dr. Lene Hau at Harvard University led a team of physicists in an experiment that dramatically slowed the speed of light to a stop. The team was able to accomplish this amazing feat by laser-cooling a cloud of sodium atoms to one-billionth of a degree above absolute zero, the hypothetical temperature scientist believe no further cooling can occur, which converted the sodium cloud into a Bose-Einstein condensate. In this state the atoms lose their energy and join together to function as one entity. When a pulse of light travels through the condensate it can eventually be brought to rest.

It seems counterintuitive that the speed of light is used as a constant in mathematical formulas, yet its speed is not constant. This experiment, however, does not disprove Special Relativity because Einstein said nothing can travel faster than the speed of light, not slower. It is a well known fact that light travels slower in numerous different mediums, and we travel slower than the speed of light every day. I think it would be interesting to analyze the speed of radio waves compared to the speed of gamma rays in Dr. Hau's

experiment, but that is another discussion.

By using Dr. Hau's technique, the speed of photons within a beam of light came to a stop for several thousandths of a second (which as you now know, in the micro cosmos this is an extremely long time). This is obviously a great way to analyze the dynamics of electromagnetic radiation. They have noticed that as a photon enters the Bose-Einstein condensate, it's wavelength shortens and eventually condenses into mass. According to physicists, since the photon was no longer traveling at the speed of light it's energy was converted into rest mass.

Before this experiment, many physicists thought a photon could never be brought to rest, and therefor must have zero rest mass. Some physicists will still to this day insist that a photon has zero rest mass, although we now have experimental data that proves that it does. According to Special Relativity, in order for a photon to travel at light-speed it either has infinite mass, which we know is not the case, or it must have zero mass, but how can something with zero mass all of a sudden display measurable mass at rest? Can something come from nothing?

Dr. Hau's team was eventually able to bring two light pulses to rest within the Bose-Einstein condensate and the entry of these pulses set into motion tornado-like vortices. These bizarre excitations sometimes open up like an umbrella and two such vortices, circulating in opposite directions, will co-exist for a while. The vortices can also annihilate each other as if they had been a particle-antiparticle pair.

I truly believe Nikola Tesla would have been fascinated with Dr. Hau's results. Tesla wrote an article towards the end of his life called "*Mans Greatest Achievements*," in which he states some innovative, yet ancient views of the Universe.

*"The primary substance (which I believe is zero point energy), thrown into infinitesimal whirls (micro vortices) of prodigious velocity, becomes gross matter (energy-mass conversion)..."*

If you were to view an infinitesimal micro vortex from the side as it traveled, its bars would produce a wave resembling a double helix and its central mass would give it the characteristics of wave-particle duality.

Tesla's concept of micro vortices could unify physics with fractal geometry because a galaxy is basically a gigantic (relative to our perspective) macro vortex. Einstein and Tesla both wanted to develop a theory that could unite the gravitational force with the electromagnetic force, and it is clearly evident our current theory for gravity cannot explain vortices. This chapter is dedicated to unifying the micro and macro cosmos and I will explain "gravity" in much more detail in the next chapter.

If a photon is in fact a micro vortex, we should be able to experimentally prove that light does not travel as a two dimensional wave,

but in reality, travels as a three dimensional helix. The difference is subtle, yet prodigious. In 1998, R. A. Ashworth published a physics essay titled “*Conformation of Helical Travel of Light Through Microwave Waveguide Analyses*” in which he conclusively demonstrates how light propagates through space as a three dimensional helix. The diameter of it's helix may be calculated by dividing it's wavelength by pi ( $d = \lambda / \pi$ ) and the speed of the photon is square root of two times the speed of it's helical wave,  $\sqrt{2} \times c$ . He also provides simple experiments anyone can do to verify his work.

Ashworth's experiment, as well as Dr. Hau's experiment, provide strong evidence a photon can in fact be a micro vortex. By using the Infiniverse theory of Relativity, instead of Special Relativity, one can have the ability to explain the exact dynamics of dark energy and shed tremendous light on the famous equation  $E=MC^2$ . Below is an example of a computer simulated Fractal Geometric Infiniverse, consisting of “time dimension” levels relative to the size scale of the observer.

From some rough calculations, if reference frame 3 represented our solar system, a single second for an Earth observer would be equal to 9 billion billion years relative to an observer from a solar system in frame 6.

Likewise, 9 billion billion years would have to pass for an observer in frame  
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6 in order for a single second to pass on Earth. It takes our solar system about 225 million years to make one full orbit around the Milky Way galaxy. The frequency of red light (which is relatively low) is  $4.3 \times 10^{14}$  Hz. Therefore, one may calculate a rough estimate of the time difference by multiplying 225 million by  $4.3 \times 10^{14}$  and obtain a relatively low estimate of the time measurements of different size scales. The time difference between the micro and macro cosmos is almost incomprehensible, but it can be calculated.

By viewing photons as micro vortices, the fractal geometric pattern

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would render photons which emit further micro vortex photons ad infinitum producing a self similar infinite fractal geometric structure of the Universe. Dark energy would essentially be the light OF light or photons OF photons, explaining how it can be “infinitely thin” and able to pass through all matter with zero resistance (dark energy wavicle represented on reference frame 11 on page 27 relative to the “Earth reference frame” 3). The “electromagnetic frequency” of dark energy is so high our color triple circuit can not detect it. Since darkness is the light OF light we can define dark energy as an

omnipresent energy (E) consisting of electromagnetic tachyon (M) which propagate at the speed of light squared ( $C^2$ ) relative to our observations, which mathematically would equal  $E=MC^2$  (reference frame 11 on page 27 relative to reference frame 3). In the Infiniverse Theory of Everything, there is no such thing as “nothingness”.

As surprising as this may seem to most people, Einstein was not the first person to develop the equation  $E=MC^2$ . Samuel Preston in 1875 as well as Olinto De Pretto in 1904 both arrived at the equation  $E=MC^2$  by analyzing the dynamics of “aether” (which I believe dark energy (used in astrophysics) and zero point energy (used in quantum mechanics) are more proper modern day terms for aether. At the time of the Michelson-Morley experiment the majority of physicists viewed aether as a type of gas or fluid more so than it was viewed as a form of energy).

Special Relativity states that anything with mass traveling at the speed of light becomes infinite. If zero point energy were to be thrown into infinitesimal micro vortices the vortex would feed it's self with zero point energy and it would inevitably grow towards infinity. The infinite energy contradiction of mass traveling at light-speed would be solved, but the infinite mass contradiction would still remain. There is a simple explanation for why micro vortices would not grow towards infinity that I will discuss in the next chapter when I unify gravity and electromagnetism into a single fundamental vortical force. It is my goal to show you the structure of the Infiniverse in this chapter and some of the solutions this structure can provide for our current view of the Universe.

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According to the first law of thermodynamics, energy is infinite, but according to Einstein's energy-mass conversion equation, energy is equal to mass multiplied by the speed of light squared. If energy is infinite, how can it be equal to anything? For example,  $E=MC^2$  also equals  $M=E/C^2$  and  $C^2=E/M$ . How can the speed of light squared equal a quotient of energy and mass if energy and mass are infinite? Anything that is infinite can never equal anything other than infinity. According to the Infiniverse theory,  $E=MC^2$  is a mathematical description for dark energy and not a mathematical

truth of the Universe. Dark energy is much more energetic than thermal energy and has a much higher energy density. Later I will explain how we may be able to “tap into” dark energy and use as a free form of energy, and in the future, propulsion for interstellar travel.

In our time dimension within the Infiniverse, there are three primary structural entities which form everything in existence. Zero point energy (space), electromagnetic energy (light), and matter (electromagnetic triple circuits). Matter can be further divided into five further forms. Bose Einstein condensates (more zero point energy present than thermal energy), solids, liquids, gases, and plasmas (more thermal energy present than zero point energy).

For everyone reading this as a peer review, this is as far as I have organized the rough draft but the book will be complete soon! Thank you for reading this far, I will temporarily upload the further sections as soon as they are organized. Please email me at [BrentJarvis@InfiniverseTheory.com](mailto:BrentJarvis@InfiniverseTheory.com) or [Brent.L.Jarvis@gmail.com](mailto:Brent.L.Jarvis@gmail.com) and let me know what you think!

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