

## Science, Examining The Fingerprint Of God

Robert Wiley<sup>1</sup>  
r7wiley@gmail.com<sup>1</sup>  
University of Houston, United States of America<sup>1</sup>

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### Abstract

*From Romans 1:18-22, "For the wrath of God is revealed from Heaven against all ungodliness and unrighteousness of men who suppress the truth in unrighteousness, because that which is known about God is evident within them; for made it evident to them. For since the creation of the world His invisible attributes, His eternal power and divine nature, have been clearly seen, being understood through what has been made, so that they are without excuse. For even though they knew God, they did not honor Him as God or give thanks, but they became futile in their speculations, and their foolish heart was darkened. Professing to be wise, they became fools." The Christian view of God is such that God is not one to prove His existence with overwhelming power. He wants to accept Him on the basis of faith (Mark 10:15). His grace and mercy are available to everyone, not just the intellectual but also the little child. Scientists have for many years marveled at the order and the design of the universe and the complex structure of a single cell. All of creation points to an awesome, super mathematician, fantastic engineer. He is a designer who is far beyond all that we can imagine. In much the same way that studying the work of an artist will tell us something about the character of the artist, examining God's creation will tell us something about the nature of God.*

**Keywords:** Science, God's creation, Bible.

### I. INTRODUCTION

When we discuss science and the Bible, it is critical that we understand that the Bible is inspired, inerrant, and infallible. Science is only man's wisdom. It is often revised, corrected, disproved, and altered. We must not be willing to alter the Bible because of what science says. If we look at the writings of the early scientists, men such as Kepler, Copernicus, Galileo, and Newton, we find that they believed that God is a God of order, design, and planning. They believed that by examining His creation, they would learn something about the nature of God. This is in much the same way as we can learn something about an artist by studying his paintings.

Consider the verses:

Psalms 19:1-5

For the choir director. A Psalm of David. The heavens are telling of the glory of God: and their expanse is declaring the work of His hands. Day to day pours forth speech, and night to night reveals knowledge. There is no speech, nor are there words; their

voice is not heard. Their line has gone out through all the earth, and their utterances to the end of the world. In them He has placed a tent for the sun, which is as a bridegroom coming out of his chamber; it rejoices as a strong man to run his course.

Romans 1:18-22

For the wrath of God is revealed from Heaven against all ungodliness and unrighteousness of men who suppress the truth in unrighteousness, because that which is known about God is evident within them; for God made it evident to them. For since the creation of the world His invisible attributes, His eternal power and divine nature, have been clearly seen, being understood through what has been made, so that they are without excuse. For even though they knew God, they did not honor Him as God or give thanks, but they became futile in their speculations, and their foolish heart was darkened. Professing to be wise, they became fools.

Johannes Kepler, a German astronomer, was a key figure in the 17<sup>th</sup> century Scientific Revolution. On the development of science, he once commented that he was just, "thinking God's thoughts after Him."

## II. RESULT AND DISCUSSION

Looking at science, let's start with Einstein's general relativity theory which is comprised of 10 fundamental equations that lead physicists to conclude that there is a point in time that all matter and energy were compressed into a single point. More important, physicists have recently determined that all space and time started with the creation of matter and energy. That is, the creation of space and of time happened when matter and energy were created. Leading scientists have concluded that space, time, energy, and matter all have a common point of creation. This means that the universe was created!

There are many developments and discoveries in science that tell us something about God. Consider the first two Laws of Thermodynamics which govern all natural processes. The first law of thermodynamics states that none of the tremendous energy of the universe is now being created. This means that the universe could not have created itself. The second law states that the available energy of the universe is decreasing. This indicates that sometime in the past all the energy was available and perfectly organized. The conclusion from this is that the universe must have been created, and that it could not create itself.

Many scientists have commented on the remarkable fact that the whole universe can be described by the same set of natural laws, and the same chemical elements are found in every galaxy. The forms of matter, the varieties of energy, and the laws that apply to both are the same throughout the whole universe. This amazing situation is implicit in the very name; it is a universe, not a multi-verse. Despite its tremendous apparent size and duration, it seems essentially the same through all space and time. This is really a strange thing, if indeed the universe had a chaotic, random, unguided origin and development, as naturalists believe. No naturalistic explanation seems adequate. In 1873, J. Clerk Maxwell wrote: "in the heavens we discover by their light... stars so distant that no material thing can ever have passed from one to another; and yet this light... tells us that each of them is built up of molecules of the same kinds that we find on earth. ...no theory of evolution can be formed to account for the similarity of the molecules. ...on the other hand, the exact equality of each molecule to all others of the same kind gives it... the essential character of its being eternal and self-existent."

The observations of the 20<sup>th</sup> and 21<sup>st</sup> centuries have drawn the same conclusions as Maxwell, all electrons are everywhere the same, all protons are the same, and so on. We should expect a sufficiently sophisticated theory to tell us why this is so.

A challenge for the naturalistic philosopher is the fact that the structures and processes and laws of the universe are capable of formulation in mathematical equations and descriptive theories of great elegance. Einstein felt that the most incredible thing about the universe was that it is intelligible, capable of being described in ways intelligible to men and women.

How could random, non-intelligent primeval particles evolve themselves into orderly, intelligible systems? Another physicist and mathematician, Paul Dirac, acknowledged the impossibility of mechanistic explanations for the orderly beauty of the universe: “there is one other line along which one can still proceed by theoretical means. It seems to be one of the fundamental features of nature that fundamental physical laws are described in terms of a mathematical theory of great beauty and power, needing quite a high standard of mathematics for one to understand it. You may wonder: why is nature constructed along these lines? One can only answer that our present knowledge seems to show that nature is so constructed. We simply have to accept it. One could perhaps describe the situation by saying that God is a mathematician of a very high order, and He used very advanced mathematics in constructing the universe. Our feeble attempts at mathematics enable us to understand a bit of the universe, and as we proceed to develop higher and higher mathematics we can hope to understand the universe better.”

The difficulty of explaining such an orderly universe by natural processes is, of course, infinitely compounded by the fact that those processes, always constrained as they are by the second law of thermodynamics, are now causing the universe to proceed inexorably toward greater degrees of disorder. Leading British astronomer Paul Davies has said, “The greatest puzzle is where all the order in the universe came from originally. How did the cosmos get wound up, if the second law of thermodynamics predicts asymmetric unwinding towards disorder?”

The simplest answer to this difficulty is in Genesis 1:1 “In the beginning God created the heaven and the earth.” The entire universe and all its laws and processes point to this one conclusion. Scientific study of the natural universe has concluded that all things are being conserved. That is that there is nothing that is being created nor is anything being destroyed. That is, we can change the form of matter or matter can be converted to energy or energy can be converted to matter. But the total matter and energy in the universe has not changed.

Physical truth from science necessarily reveals to us something of the Divine. Francis Schaeffer coined the phrase “true truth”, which is truth that really exists, or a fact having its own autonomous reality. True truth works philosophically, physically and morally. So, if the unbiased message from nature contradicts a few of our minor beliefs, it is worth considering more sophisticated interpretations of the few Bible verses that touch on physical truth, such as the creation account in Genesis.

Most scientists were so impressed with the universe that they used to say the universe has always been here; that it simply existed for all time. This seemed to agree with early static telescopic observations of the heavens. Strict materialists were thus able to avoid the embarrassing notion of a creator. Then discoveries in the early 20th century changed the scientific perspective of the heavens forever. Science discovered physical evidence of the Genesis account of creation.

In 1929 Edward Hubble discovered that a great many stars, or nebula, were actually distant galaxies—*island universes*. Each contained billions of stars and was separated from our own galaxy by millions of light years of relatively empty space. Scientists were amazed when he discovered that most other galaxies are moving away from us, meaning that the universe—space itself—is expanding. Moreover, Hubble found that the more distant the galaxy, the greater is its velocity away from our solar system. This is the underlying evolution of space. This expansion implies that the material of all the galaxies was collected together in the distant past. It implies the universe had an origin, as in Genesis 1.

One of the key parameters in understanding space, stars, and galaxies is distance. As it says in Jeremiah 10:12, “It is He who made the earth by His power, who established the world by His wisdom, and by His understanding stretched out the heavens.”

In view of the countless galaxies and stars in the heavens, their various developmental stages, and the vast distances to those objects, there can be little doubt about the ancient age of the universe. In deep space, the immensity, complexity, and order of the universe reveal something of God’s unbounded intellect, and His marvelous handiwork. The terrible radiance and power of countless stellar nuclear furnaces, and blazing quasars, clearly display something of God’s awesome glory and power. To me, the old age of the universe, and its stability reflect the unchanging nature of the ancient one.

There are at least 9 observations that scientists have made that tell us something about the nature of God.

1. Similar geometrical patterns seen everywhere in the nature indicate a single creator.
2. Unbelievable complexity of the DNA code and the cell.
3. We see intelligent design of the creator in everything in the universe, living and non-living.
4. Similar designs found at the microscopic level of atoms and the planetary system is a signature of God.
5. Everything that exists must have a cause, therefore the universe had a cause which was caused by an uncaused entity known as God.
6. Delicate balance, connection, and interdependency that we see in the whole universe is an indication of one supreme power.
7. The fine-tuned universe and extremely precise nature’s physical constants point to a super intelligent creator.
8. The whole universe acts as a very big machine, subdivided into an infinite number of smaller machines, which indicates an underlying superior intelligent designer.
9. The non-physical aspects to human consciousness lead to indirect evidence of God.

## 2.1 Similar Geometrical Patterns

There are geometrical patterns that are seen everywhere in nature. These patterns are known as the fibonacci sequence, the golden ratio, and archimedes spiral. They are seen everywhere in nature and provide patterns and proportions that are pleasing to the eye. The number of petals in a flower often correspond to the numbers in the fibonacci sequence. They are also found in the other plants such as the pineapple and pinecones. The golden ratio appears in many aspects of nature as well.

Examples are the height of a person compared to the height of the navel. The ratio of the length of a forearm compared to the length of the hand. The golden ratio is found in the details of the DNA. Artists use the golden ratio and archimedes spiral to create art that is pleasing to the viewer. In designing jewelry, the golden ratio is often used to create pieces that draw attention to the piece and to the person wearing it. Architects and builders use the golden ratio and to create structures that are pleasing and stable. Archimedes spiral is seen in everything from seashells and snail shells to the spiral of the milky way galaxy.

## **2.2 Complexity of the DNA Code and the Cell**

Darwin thought that the cell was just a bag full of protoplasm and some chemicals. However, we have found an incredible level of complexity within each cell. The DNA within a single human cell, when unfolded is about 6 feet long. It contains more information than an entire encyclopedia. The information in DNA contains over 3 billion letters. However, the entire volume of information contained within the DNA is written using only 4 letters. There are only four amino acids that are found within any strand of DNA. All of that information is written with only those four letters, just arranged in different sequences and different lengths of “words”. In addition, we know that information only comes from intelligence. Information does not occur by random chance. Matter has never been observed creating information from non-intelligence. In contrast to Darwin’s understanding, we now know that each cell is a complex city with several factories, shipping firms, locked gates, and gatekeepers. Individual trucks will only transport one type of product. There are warehouses and factories that assemble the different compounds into the needed products. The machinery within a single cell is more complex than the most complex machine that mankind had created. There are a large number of highly complex machines functioning at high speed and with great precision. And all of the machines work automatically and in full coordination. All of this indicates a high degree of intelligence with great design and powerful control. Richard Dawkins has stated that living systems “give the appearance of having been designed for a purpose.”

## **2.3 Intelligent Design in Everything in the Universe, Living and Non-Living**

There is a beauty in all things in nature. There is incredible beauty in flowers, birds, animals, and people. There is also an awesome beauty in inanimate objects such from rock formations, to waterfalls, to mountains, rivers, and stars. The images from the Hubble telescope show incredible beauty in distant galaxies. Can all of this beauty occur by random chance? If we observe a man-made object that we regard as very beautiful, we know that it was designed by intelligence. If we can see the design and intelligence in man-made objects, why do we assume that a greater beauty, organization, and structure occurred by chance? The beauty of the natural world is often used as inspiration for many forms of art and for a variety of artists. It all speaks to a super-intelligence who takes great joy in designing awesome beauty and who love His creation.

## **2.4 Similar Designs Found at the Microscopic Level of Atoms and the Planetary System**

Inside an atom we see electrons spinning around the nucleus of the atom. In addition, the electrons spin about their axis. The same activity is seen within the solar system. The planets orbit the sun and each planet spins about its own axis. In a similar fashion, a similar motion is seen in the galaxies. The multiple stars orbit about a central

axis and each sun rotates on its axis. This variation on a theme is consistent with an intelligent designer who put His fingerprint in everything that He created.

### **2.5 Everything that Exists Must Have A Cause**

Everything that exists must have a cause. The universe exists; therefore, it must have a cause. Science states that all energy and matter came into existence at a single point in time. In fact, it is argued that time had a moment of initiation. This means that all time, energy, matter, and space had a single moment when they came into existence. One problem that atheist scientists have is “if there was a beginning, then there must be a beginner”. Therefore, there must be an uncaused creator that caused all of the universe.

### **2.6 Delicate Balance, Connection, and Interdependency that We See in the Whole Universe is An Indication of One Supreme Power**

Mankind cannot survive without the other animals, plants, and microscope life. We also depend upon even the non-living things in order to live. This is everything from the soil, water, and the air. It also includes the sun to provide heat and light and the moon for the tides. We depend upon the water cycle to recycle the water, and to replenish the water and soil. We also depend upon the carbon cycle, the nitrogen cycle, and the oxygen cycle. We need the plants to extract the nutrients from the soil and provide us with the nutrition that we need. We also need the plants to extract CO<sub>2</sub> from the atmosphere and through photosynthesis and the use of sunlight, to produce the oxygen that we need. Without the water cycle, plants would soon die. Without animals to take in oxygen and to exhale CO<sub>2</sub>, plants would eventually cease to exist. The presence of the large outer planets is necessary to sweep the solar system and to protect earth from potentially cataclysmic events. The interconnectedness and dependence all indicate that there is an intelligent engineer who designed and created all creation. It also points to a God of love, relationship, connection, and interdependence.

### **2.7 The Fine-Tuned Universe and Extremely Precise Nature’s Physical Constants Point to A Super Intelligent Creator**

The fine-tuning refers to the extremely precise value of nature’s physical constants. It has been said that “it is as if the entire universe has been designed for life on Earth”. It has been said that if the mass of the universe were increased by as much as a grain of sand, that the gravitational forces would have prevented the universe from expanding to its current size and the universe would have began collapsing before life began. If the mass of the universe were decreased by the mass of a grain of sand, the rate of expansion would have dissipated the heat too rapidly and life would not exist. There are hundreds of physical constants that are necessary for life to exist. According to Dr. Paul Davies:

“Taken together they [anthropic principles] provide impressive evidence that life as we know it depends very sensitively on the form of the laws of physics, and on some seemingly fortuitous accidents in the actual values that nature has chosen for various particle masses, force strengths, and so on. If we could play God, and select values for these natural quantities at whim by twiddling a set of knobs, we would find that almost all knob settings would render the universe uninhabitable. Some knobs would have to be fine-tuned to enormous precision if life is to flourish in the universe.”

It has been argued that if the fine-structure constant, which characterizes the strength of the electromagnetic interaction, differed by only 4 percent, then carbon would not be produced by stellar fusion. Without a sufficient abundance of carbon, carbon-based life forms could not exist.

Chemical laws present from the beginning of the universe also show that water, the basic molecule of life on earth, has very unique properties which, if any different, wouldn't allow for life on earth. Liquid water is probably vital to any carbon-based life-form and carbon is a great element to allow for complex chemical bonding reactions inherent to life. Water is also vital due to its properties as a liquid solvent, and the protective medium it provides as an environment for habitation. However, if water was just a little different, it couldn't be this powerful liquid. Hugh Ross notes that the rules of water chemistry are also fine-tuned, noting that, "polarity of the water molecule if greater: heat of fusion and vaporization would be too great for life to exist; if smaller: heat of fusion and vaporization would be too small for life's existence; liquid water would become too inferior a solvent for life chemistry to proceed ... ."

The fact that solid water can float on liquid water is also an important property for life on earth. Intuitively, we would expect the solid form of a substance to be more dense than its liquid form. However, due to its pressure-temperature diagram, the solid crystalline form of water is actually less dense than its liquid phase. If this were not the case, polar ice caps would sink--not float--and would freeze the earth's oceans from the bottom up. Astrophysicist John Barrow and Mathematician Frank Tipler explain that this property of water is highly uncommon:

"Water is actually one of the strangest substances known to science. This may seem a rather odd thing to say about a substance as familiar [as water,] but it is surely true. Its specific heat, its surface tension, and most of its other physical properties have values anomalously higher or lower than those of any other known material. The fact that its solid phase is less dense than its liquid phase (ice floats) is virtually a unique property. These aspects of the chemical and physical structure of water have been noted before, for instance by the authors of the *Bridge water Treatises* in the 1830's and by Henderson in 1913, who also pointed out that these strange properties make water a uniquely useful liquid and the basis for living things."

Barrow and Tipler go on to show how water has a much higher boiling point than other substances, which allow it to also condense to form a liquid. Water has properties which are generally "absent" in similar substances. However, all of these facts would be meaningless if the Earth was in a position relative to the sun that made surface temperatures too hot, or too cold to allow for liquid water. This, and other similar facts show that the solar system itself has been "fine-tuned" and that it seems that a Designer has influenced the fundamental properties of the universe, but also much smaller details like the origin of our solar system. Planck's constant,  $C$ , total mass, mass of the atom, mass of an electron.

## **2.8 The Whole Universe Acts as A Very Big Machine, Subdivided into An Infinite Number of Smaller Machines**

A grand scale the whole universe can be viewed as a perfectly functioning machine. Changing the scale, the galaxies each act as a machine and interact with all other galaxies. Within each galaxy the star systems act as machine which also interact with all other star systems. This can be carried down to the level of the molecule and then to the atom. We have come to realize that each part of each machine on every scale must function precisely and interact with all other machines for life to exist. This

all indicates careful planning and design. Non-physical aspects to human consciousness lead to indirect evidence of God.

After much research, it has been found that human consciousness cannot be the product of brain and body. There is something more involved. There must be some non-physical aspects to human consciousness. Our thoughts and emotions are physical processes. However, the experience of consciousness is completely non-physical. But the thoughts and emotions interact with the consciousness. The physical interacts with the non-physical. This implies design and purpose in the structure and interaction.

### III. CONCLUSION

From all of these, scientists, studying various aspects of the universe and life on earth, have observed the following attributes of God. The universe was created by a God with a high degree of intelligence with great design and powerful control. The Creator is a being who super-intelligence and who takes great joy in designing awesome beauty and who loves His creation.

This variation on a theme is consistent with an intelligent designer who put His fingerprint in everything that He created. They have also concluded that there must be an uncaused creator that caused all of the universe. The observations imply design and purpose in the structure and interaction. The design points to a God of love, relationship, connection, and interdependence.

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