

**Biblical Christianity:  
A Paradoxical Expression in Quantum Mechanical Theory**

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This article proposes that biblical Christianity, the spiritual Kingdom of God, can be compared to and be expressed in quantum mechanical theory. This article represents a thought experiment in theoretical physics. The purpose of this article is to honor Isaac Newton, a preeminent mathematician and physicist, who wrote extensively on Daniel 9, as an avid student of the Scriptures. I have shared Mr. Newton's passion for the word of God. I have endeavored to analyze God's prophetic Scriptures literally, particularly Daniel 9, with a view to understand the times and seasons of Israel.

Introduction

*The Evolution of Quantum Theory*

In 1687, Isaac Newton, a believer in Christ, developed new mathematical equations to describe and predict the future motion of physical objects and systems, including the solar system. The use of his equations led him to the belief that the world is fundamentally predictable. He proposed three laws of motion: inertia, acceleration and action/reaction and thereby laid the foundation of classical mechanical theory.

In 1900, Max Planck, a German theoretical physicist, wondered why objects changed color from heating. Planck is credited with the discovery of energy quanta in physics resulting from his theoretical studies. He is the originator of quantum mechanical theory. Planck theorized that the energy of light was related to its frequency. The equations of classical mechanics could not provide a satisfactory explanation, but Planck's quantum theory was a move in the right direction.

In 1911, Ernest Rutherford, a New Zealand chemist, discovered the structure of the atom and the presence of a nucleus with an orbiting electrons known as the Rutherford model. He is credited as the father of nuclear physics.

In 1913, Niels Bohr, a Danish physicist, following up on Planck's theory, led him into the study of the structure of the hydrogen atom. Bohr studied the electron theory of metals at the University of Copenhagen. His description of the mechanical operation of nucleus and orbiting electrons was a radical departure from the accepted science of the day. He described the hydrogen atom as a small, positively charged nucleus surrounded by one electron which traveled in a circular orbit about the nucleus.

Bohr's atomic model interested Albert Einstein. Einstein theorized that Planck's idea of light energy as frequency was associated with the transmission of light energy in small packets or "quanta" which he called photons. Einstein theorized that light sometimes acts as a particle and at other times, like a wave.

In 1924, Louis de Broglie, a French physicist, made a ground breaking contribution to quantum theory. He postulated that the wave nature of electrons suggested that all matter has wave properties. His hypothesis is known as the wave particle duality of light and matter. This duality is foundational to quantum mechanical theory.

In 1926, Erwin Schrodinger, an Austrian physicist, took the Bohr atom model and extrapolated a new mathematical equation which sought to describe the likelihood of finding an electron at a certain position. Like Newton before him who had calculated the future position of objects in systems, he took the idea deeper into the atomic model. His equation described the changes over time of a physical system in which quantum effects, such as wave-particle duality, were very important. This atomic model was known as the quantum mechanical model of the atom.

Schrodinger's equation shares a place in history with Isaac Newton's second law which makes a mathematical prediction as to what path a given system will take following a set of known conditions. Schrodinger's equation is the quantum mechanical analogue of Newton's second law. Classical physics gave birth to quantum physics.

The pioneering work of these men gave scientists a new and systematic way to explore the physical world. The theory of quantum mechanics is arguably the most significant and powerful theory devised to date.

So, what does this have to do with Christianity? Quantum theory suggests that there are two realities co-existing simultaneously. We can only see one reality. But, quantum theory suggests there is another. The Scriptures declare that there are two co-existing realities.

### Where is the Proof?

#### *Double-Slit Experiment*

In an attempt to demonstrate the wave-particle duality of light and matter, scientists devised an experiment in support of the theory. This is the double-slit experiment. It proves that light acts as a wave and a particle depending on the circumstances. This experiment contains the essence of quantum mechanics. The experiment utilizes electrons, which are particles. Imagine, the setting is a room with a ceiling light turned on and a screen on one wall. Imagine an electron gun opposite the screen which fires millions of electrons at a solid plate set up in the middle of the room. The plate has two slits which are narrow and long. Some of the electrons escape through these two slits and are deposited on the screen behind the plate. The escaping electrons

accumulate on the screen in two sets of random dots. These random deposits on the screen are exactly what would be expected of the electrons, acting as particles. Now, turn off the lights and repeat the experiment. The electron dots on the screen form a series of vertical lines, not random dots, exactly what would be expected of an electron, acting as a wave. The only difference between the two experiments was the removal of light.

In the quantum world, the addition of light, which permits observation, changes the behavior of the observed item. Observation requires light. The photons caused the electrons to behave as waves.

### Quantum Superposition<sup>1</sup>

The next question gets weird. What in the world would be going on when there is no light? If light changes behavior, what would the world be like, a world without the possibility of observation? If God is light<sup>2</sup>, then separation from God is darkness<sup>3</sup>. Now, in Genesis 1:3-4, we are informed that light was introduced and the light and darkness were separated. This separation did not involve our sun or refer to day and night. The light of Genesis 1:3 was not the light from the sun, but some other form of light. I will call this light "Divine Light". The sun and moon were not created until verse 14. This Divine Light is associated with God's being and His creative speech. If we were to rearrange Einstein's Theory of Relativity equation,  $E=mc^2$  where  $E$  is energy,  $m$  is mass or matter and  $c^2$  is the speed of light squared, we might get a glimpse of God's creation formula. On God's divine motion, a judicial action *sua sponte*, God spoke creation into existence based on His divine power and authority.

Let's solve the equation for mass or matter. That is the essence of the visible world. The rearranged equation would be  $M=e/c^2$  where  $M$  is mass or matter expressed as  $e$  energy divided by  $c^2$  the speed of light squared.

Thereby, we may postulate that all things were created out of God's being by the Divine accelerator (his Voice<sup>4</sup>) interjecting Divine Light (a character trait<sup>5</sup>) into Divine Energy (His power<sup>6</sup>) thereby producing matter or all things<sup>7</sup>. It was not the Big Bang. It was Divine Speech

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<sup>1</sup> Note: All Scripture citations are King James Bible, Authorized Version, the only Bible I could find without a copyright mark ©. Copyright ownership protects the "original literary works of man", 17 USC §201.

<sup>2</sup> 1 John 1:5; John 8:12; Ecclesiastes 2:13

<sup>3</sup> Isaiah 8:22; Matthew 8:12, 22:13, 25:30; 2 Peter 2:4,17; Job 15:23, 18:18

<sup>4</sup> Genesis 1:3 And God said, Let there be light: and there was light.

<sup>5</sup> John 8:12 Then spake Jesus again unto them, saying, I am the light of the world: he that followeth me shall not walk in darkness, but shall have the light of life.

<sup>6</sup> Matthew 28:18 "And Jesus came and spake unto them, saying, All power is given unto me in heaven and in earth."

<sup>7</sup> John 1:3 All things were made by him; and without him was not any thing made that was made.

at unimaginable energy levels. In the Book of John, speaking of Jesus in His pre-incarnate being, we are told that "All things were made by him; and without him was not anything made that was made."<sup>8</sup>

In this beginning, the first order of Divine business was to speak light<sup>9</sup> into the creation equation and divide it from the darkness.<sup>10</sup> Symbolically, the Scriptures speak of light and darkness as the difference between truth and lies and life and death. The darkness is described as a place of horrible experience.<sup>11</sup>

Darkness, in the quantum world, cannot be observed or known to us. But it exists scientifically and that agrees with God's words. Biblically, darkness is really bad. You do not want to experience darkness. It is described as a reality in which there are principalities, powers and rulers of darkness, a place of spiritual wickedness.<sup>12</sup> Something is present in this dark reality and it is in opposition to God.

In classical physics, one can predict the position and velocities of the particles, but in quantum mechanics one cannot. The removal of observation or light prohibits measurement, but that does not change this unobservable reality.

Quantum objects act as if they can be or do different things at the same time. This is known as quantum superposition. It challenges our understanding of reality.

Schrodinger said, if you really understand your theory, you should be able to predict what can happen in all sorts of situations even though the predictions cannot be carried out in a laboratory experiment. Quantum superposition cannot be explained away with classic quantum mechanics. It is a mystery. God's initial creation is also a mystery. Both demand our faith.

### Two Simultaneous Realities

#### *Scientific Reality*

In superposition quantum mechanics there are two realities. From God's perspective, one reality is the observed physical world and the other is the unobserved spiritual world. The physical world, our reality, is observable because of the light from the sun. If there were no sun, we would not be able to observe anything. Our day time symbolically represents the Kingdom of God and our nighttime symbolically represents the Kingdom of Darkness. Day and night are "shadows" of this unobservable spiritual reality.<sup>13</sup> God uses aspects of the physical world as types to teach us about the unobservable spiritual world.

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<sup>8</sup> Ibid

<sup>9</sup> Genesis 1:3

<sup>10</sup> Ibid

<sup>11</sup> Acts 26:18; Colossians 1:13; Ephesians 5:11, 6:12; Revelation 9:2; 2 Peter 2:4; Matthew 25:30

<sup>12</sup> Ephesians 6:11-12; 2 Peter 2:4

<sup>13</sup> Colossians 2:17

Science acknowledges the observed world and is unsettled by the unobserved world. Scientists like to measure things. The observed world is a shadow of the fullness of God's light reality and the unobserved world is a shadow of the fullness the dark reality. If scientists cannot measure a thing, they are inclined to dispute its existence, its truth. Scientist dispute the Genesis account because they cannot prove or measure it. The same is true of quantum superposition.

Quantum superposition says that an object can be in two places at once. This means that there would be two simultaneous realities affecting a single object. Scientists object to this theory because they cannot measure it. Measuring it would change the realities. This duality cannot be explained away with classical quantum mechanics. Quantum physicists are totally confused by this paradox.

### *Biblical Reality*

The Scriptures say that there are two realities. These realities, often described as kingdoms, are described as one of light and the other darkness. These are spiritual kingdoms, both of which are invisible and incapable of direct physical measurement. There is a kingdom of light and a kingdom of darkness.<sup>14</sup> The kingdom of light is the Kingdom of God.<sup>15</sup> God is light.<sup>16</sup> The kingdom of darkness is a spiritual kingdom and invisible to the world.<sup>17</sup> Now, both of these spiritual kingdoms have their counterparts in our physical reality. The Kingdom of God is said to be in "mystery form" on Earth. It is a kingdom which inhabits Christ's human possessions.<sup>18</sup>

These two spiritual kingdoms can be associated with day and night, light and darkness, good and evil and Christ's own and those who reject Christ.

The adversary Satan, is often referred to as the deceiver who blinds the minds of unbelievers disguising himself as an angel of light.<sup>19</sup> His kingdom is one of darkness and lies.<sup>20</sup>

### Indirect Evidence of the Invisible Kingdoms of Light and Darkness

While we cannot measure these unobservable spiritual kingdoms, we can see real world indirect evidence of their influence in the physical world. This indirect evidence is measurable. We find our guide for this in the definition of "faith". The Scriptures say in Hebrews 11:1:

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<sup>14</sup> Colossians 1:13; Ephesians 5:8

<sup>15</sup> John 18:36

<sup>16</sup> 1 John 1:5

<sup>17</sup> Colossians 1:13 "dominion of darkness"

<sup>18</sup> Colossians 1:27; Ephesians 1:11-14

<sup>19</sup> 2 Corinthians 4:4, 11:14

<sup>20</sup> John 8:44; Ephesians 2:2

"Now faith is the substance of things hoped for, the evidence of things not seen."  
[Emphasis Added]

We cannot measure the "substance", a component of faith, but we can measure the "evidence". Faith is expressed in belief which is necessarily followed by action. Real faith is actively producing evidence.<sup>21</sup>

### *Kingdom of God*

The Kingdom of God is invisible, but that does not mean that it does not exist. Today, it is in "mystery form".<sup>22</sup> We are told to emulate Christ's character and "put on the Lord Jesus Christ".<sup>23</sup> Christ's own are told to cast off the "works of darkness" and "put on the armor of light".<sup>24</sup> It is the good works in Christ that are performed through His people which are the evidence of the Kingdom of God.<sup>25</sup>

### *Kingdom of Darkness*

In contrast to the Kingdom of God, we are told that the world is owned and ruled by the Prince of Darkness, the prince of the power of the air.<sup>26</sup> He has the power of death.<sup>27</sup> We live in this kingdom by default. We serve him<sup>28</sup>, unless we affirmatively choose God in Christ<sup>29</sup>, Jesus, the light of the world. The evidence of this Kingdom of Darkness is seen in all sorts of corrupt behavior.<sup>30</sup>

We can find God's light in the darkness of the world. This is the good news.<sup>31</sup> If you do not have His light<sup>32</sup>, you are in darkness. His light is an armor against darkness.<sup>33</sup> And this is the condemnation, that light is come into this world, and men loved the darkness rather than the light, because their deeds were evil.<sup>34</sup> There is therefore, now no condemnation to them which are in Christ Jesus, who walk not after the flesh, but after the Spirit.<sup>35</sup>

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<sup>21</sup> Galatians 5:22-23

<sup>22</sup> Colossians 1:27; Luke 17:20-21; Romans 14:17; 1 Corinthians 4:20

<sup>23</sup> Romans 13:14

<sup>24</sup> Ibid

<sup>25</sup> Ephesians 2:10, 5:1-17; Romans 8:29

<sup>26</sup> Luke 4:5-6; Matthew 4:8-9

<sup>27</sup> Hebrews 2:14

<sup>28</sup> 1 John 4:2-4; Ephesians 5:8; 2 Corinthians 4:6

<sup>29</sup> Colossians 1:13

<sup>30</sup> Mark 7:20-23; Romans 1:28-32; Proverbs 4:19

<sup>31</sup> Luke 2:10-11; Ephesians 2:8-9; Romans 10:9-10

<sup>32</sup> John 8:12, 12:46

<sup>33</sup> Romans 13:12

<sup>34</sup> John 3:19

<sup>35</sup> Romans 8:1

### Scientific Reality Agrees with Biblical Reality

God uses nature to teach man about divine realities. That which may be known of God is manifested in creation.<sup>36</sup> The invisible things which may be known about God are in plain view, so men are without excuse ignoring God.<sup>37</sup> Man's scientific wisdom is folly to God, if God is not acknowledged in the science.<sup>38</sup> God will not be mocked.<sup>39</sup>

Scientific quantum theory is a shadow of divine quantum law. Biblical Christianity and the principals of salvation in Christ are mirrored in man's present and incomplete understanding of the fullness of divine quantum mechanical laws. God uses the simple things of this world, in one of multiple attempts, to teach that which may be known of God. For now we see the world through a glass, darkly; but then face to face: now I know in part, but then shall I know even as also I am known.<sup>40</sup> Stephen Hawking and Carl Sagan, now know the truth. Are they in the light or darkness? Darkness is the eternal resting place of the atheist. God forbid any reject God's free offer of salvation in Christ.<sup>41</sup> How shall we escape, if we neglect so great salvation; which at the first began to be spoken by the Lord, and has been confirmed through this Age of Pentecost?

### Spooky Action at a Distance

In 1935, Albert Einstein, Boris Podolsky and Nathan Rosen conducted a thought experiment to explain this superposition paradox (the "EPR Paradox"). The essence of the paradox is that particles can interact in such a fashion that it is possible to measure their momentum and position more accurately than uncertainty principles permit, unless measuring one particle instantaneously affects the other thereby preventing accuracy. The problem here is that the communication of observation information would have to be transmitted from one particle to another in excess of the speed of light, which according to current science, is forbidden by the theory of relativity. Einstein termed this "faster than the speed of light" communication the "spooky action at a distance".

The EPR Paradox authors suggested that the unexplained and apparently impossible "spooky action at a distance" was governed by some unknown "hidden parameters". The hidden

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<sup>36</sup> Romans 1:19

<sup>37</sup> Romans 1:20-21

<sup>38</sup> Romans 1:22

<sup>39</sup> 1 Corinthians 1:26-31; Galatians 6:7; John 3:19

<sup>40</sup> 1 Corinthians 13:12

<sup>41</sup> Ephesians 2:8-9

parameters must be associated with God's nature and the Divine Light. God hides many things from man because He wants us to seek Him out for answers.<sup>42</sup>

The bottom line for Einstein was this: Our understanding of reality is incomplete. This is a temporal view of an eternal reality. Quantum mechanics defies world view of reality. This reality exists scientifically. Divine Truth is indifferent temporal truth.

### *Theory of Entanglement*

Schrodinger termed Einstein's "spooky action at a distance" the Theory of Entanglement because of the strength and power of the connection between two particles.

It is possible for two particles to be so tightly "entangled" that they form a single system where neither one has a quantum state of its own. Imagine these two particles, A and B, separated by light years. Under this theory, the measurement of particle "A" would have an immediate effect on particle "B". For Einstein, this "beyond the speed of light" communication would be impossible.

In the early 1980's, Alain Aspect, a French physicist, following up on John Bell's 1964 work, conducted an experiment which demonstrated the existence of the "spooky action at a distance". His experiment provided strong evidence that a quantum event at one location can affect an event at another location without any obvious mechanism for communication between the two locations. This defies the Theory of Relativity. Is this a type of shadowy expression, an aspect of divine omnipresence, or quantum omnipresence?<sup>43</sup>

### *Not Spook Action, But Divine (Holy Ghost) Action at a Distance*

This theory of entanglement is exactly what is described in the Scriptures. When a person accepts Christ as their personal savior God in Christ divides them as it were into an alive spiritual being placed "at a distance" into the Kingdom of God, while their bodies remain here on Earth. According to Scripture, the person is in two places at once. The person becomes so entangled, as a part of the body of Christ<sup>44</sup>, that everything done on Earth has and will have a direct effect on their eternal position in the heavenly realm<sup>45</sup>.

## Quantum Superposition and Christ

### *New Creation in Christ*

Biblically, quantum superposition is the state of all individuals who have believed on and received Christ, the light of the world, as their personal savior. At the moment of salvation, each

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<sup>42</sup> Proverbs 25:2; Psalm 83:3

<sup>43</sup> Proverbs 15:3; Colossians 1:17; Psalm 32:8, 139:7-10; Acts 17:27; Job 34:21

<sup>44</sup> 1 Corinthians 12:27

<sup>45</sup> 1 Corinthians 3:8,11-14; 2 Corinthians 9:6; Philippians 3:14; 2 Timothy 4:8

individual believer in Christ is indwelt by the Holy Spirit and altered spiritually. Their souls are circumcised from their fleshly bodies, so that the inner dwelling Holy Spirit has separation from the flesh, which is subject to the body of sin (corruption)<sup>46</sup> until the future Resurrection/Rapture event. They are placed in a state of "divine quantum superposition in Christ". The Scriptures state that God raises up the believers and seats them together with Christ in heaven.<sup>47</sup> Additionally, this salvation also causes the believers to become new creatures.<sup>48</sup> A transformation occurs and the believers are in two places at the same time.

This is the classical definition of quantum superposition applied to biblical Christianity. It cannot be explained by classical quantum theory. It requires faith in the truthfulness of the Scriptures as God's inspired truth.<sup>49</sup> Quantum superposition in Christ requires faith.<sup>50</sup> Classical quantum mechanical theory also requires faith. Both are true even though they cannot be empirically measured.

#### *Alive in Christ, Yet Dead to World*

The Scriptures state that all believers are alive in Christ, yet dead to this world.<sup>51</sup> This is a simultaneous state of being alive and dead. This is a paradox. This is very much like Schrodinger's Gedanken Experiment with the cat. This was a thought experiment described as a paradox. It attempted to illustrate what he saw as the real world application of quantum mechanics to everyday objects. In his thought experiment he imagined a cat in a box which contained a deadly trigger which, if touched by the cat, would kill it. Being unable to open the box to see if the cat was alive or dead he said that, without observation, the cat would be both dead and alive at the same time in the context of quantum superposition. In the interest of limiting the length of this article, you may read about the Schrodinger's Gedanken experiment in a National Geographic article linked to this footnote.<sup>52</sup>

#### The Future Resurrection/Rapture Event

Now for some crazy fun. The Resurrection/Rapture, the "catching out" event<sup>53</sup>, will be an interesting energetic quantum experience. The Holy Spirit, which indwells "Christ's own", will snatch out all believers from this physical reality in the "twinkling of an eye". These special

<sup>46</sup> Romans 8:21; 1 Corinthians 15:42

<sup>47</sup> Ephesians 2:6-8

<sup>48</sup> 2 Corinthians 5:17

<sup>49</sup> 2 Timothy 3:16

<sup>50</sup> Ephesians 2:8-9; Romans 10:9-10

<sup>51</sup> Romans 6:1-11; Colossians 2:20

<sup>52</sup> <https://news.nationalgeographic.com/news/2013/08/130812-physics-schrodinger-erwin-google-doodle-cat-paradox-science/>

<sup>53</sup> 1 Corinthians 15:52; 1 Thessalonians 4:17

individuals, in Christ, will be energized and translated<sup>54</sup> into the Kingdom of God. That is what the Scriptures say about the future Resurrection/Rapture event. It will be a quantum event of divine proportions. It happened to Jesus individually in 30 A.D. at the resurrection and ascension of Christ. He says that it will happen to the special class of people who trust in Him alone for salvation.

The risen Christ demonstrated the characteristics of a divine body which appeared to express this superposition "wave/particle duality". Immediately following Christ's resurrection we are told that He was able to transport Himself into buildings without entering through doors.<sup>55</sup> Then, we are told eight days later, that He appeared in a room without using the door.<sup>56</sup> These two examples suggest that Jesus' body was capable of some form of wave/particle duality which permitted Him to appear suddenly without any visible motion of physically walking into a room. Both of these cited verses make the point to tell the reader that the doors were closed. This additional information demands that we consider the new nature of His glorified body.

That same power which raised Christ and elevated Him to Heaven resides in God's people today.<sup>57</sup>

### Conclusion

Quantum theory has its place in science. It also has its place in biblical Christianity. Scientifically, it requires faith even without complete understanding. Biblically, it requires faith, although we do have plenty of evidence of past fulfilled prophetic events. Quantum theory has its place in the divine as well. The theory has parallel applications to numerous Scriptures affecting the body of Christ in this the Age of Pentecost.

### Application

Each one of us should consider the truth of dual realities as supported in the theory of quantum mechanics. Science has demonstrated the paradox of entanglement as true science. The Scriptures, as a Divine communication, instruct us to seek God for answers to both realities, the Kingdom of the World, a physical reality and the Kingdom of God, a spiritual reality. God says He is light and in Him there is no darkness.

Will you choose light or default to darkness. God's truth is that salvation is available to all NOW, by faith alone. No works are required.<sup>58</sup> If you reject God's light, you will reject His truth

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<sup>54</sup> Colossians 1:13; Hebrews 11:5

<sup>55</sup> John 20:19 Note: The verse states "the doors were shut" and Jesus appeared "and stood in their midst", thereby requiring our observation that he did not enter by the door.

<sup>56</sup> John 20:26

<sup>57</sup> Romans 8:11

and His reality, whether you perceive it or not. It will have eternal consequences. God sends no one into eternal darkness. Each person individually will choose it by rejecting Christ. This will be a default judgment in God's Divine Court.

If your beliefs are not in agreement with God's reality, your beliefs will send you into outer darkness. If you do not act, you choose darkness and death by default action, as a matter of law, God's divine law.

Choose light. Choose life. Choose Jesus.

Jesus proclaims He is the way, the Truth and the Life<sup>59</sup> and in Him is no darkness.

Seek the Lord while He may be found, call upon Him while He is near.<sup>60</sup> He is near you, now. Today, is the day of salvation.<sup>61</sup>

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<sup>58</sup> Ephesians 2:8-9, Note: There are only two religions in the world, God's and man's. Man's religions say "do, do, do" and God's religion is personal, in Christ, which says, "done, done, done".

<sup>59</sup> John 14:6; 1 John 1:5

<sup>60</sup> Isaiah 55:6

<sup>61</sup> 2 Corinthians 6:2