

## **An Approach to Belief Systems in The Light of Brain Functions, Evolution Theory, The Cosmos and Quantum Theory**

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*To cite this article: Dr. Halise Heves ÖZYILMAZ, St. Clements University, Current Science, Volume 4, No. 6, 2022, p. 21-49. - 0099-0001-2206-0002*

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**ISSN:** 2667-9515

**Barcode:** 977266795001

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## Abstract

A lot of studies have backed the view that the temporal lobe's magnetic activation causes the feelings of God, feelings of oneness and union, and the feeling of talking to divine entities. Van Gogh, Dostoyevski and Joan of Arc are some of the people who have experienced this. Some of them inverted their feelings into art by using the inspiration the feelings provided to create masterpieces. Others may have wanted everybody to live in the peace and divinity that they lived. The brain's functions, hormones and the physical activity of the body influence the person. When the feeling in the temporal lobe is triggered, God feelings arise, so we can say that the functions of the brain are supporting the belief systems. Evolution Theory supports them as well, because gathering round a story renders the society strong and enables them to survive and reproduce. There are many other physiological and psychological reasons why people need belief systems; however, discoveries about the Cosmos and quantum theories do not support these belief systems.

The Cosmos is approximately 14 billion years old. When the distance of some stars is calculated in light years, it reflects the Big Bang theory, the beginning of the universe. We see it now, but it has always existed. Time is not linear; everything exists at the same time. Quantum knowledge further proves to us that the basic structure of all matter is the same, and that, this is so possible because everything was created from gas and dust during the Big Bang. The essence of all matter in the universe is the same, and it is called strings. Moreover, these particles of matter recognize each other.

According to the double-split experiment, photon and an electron can be at more than one place at the same time, and they can behave both as a wave and a particle. They can choose how to behave; when they are under observation they behave differently. This means that we are making choices as well. Belief systems are questioned in the light of all that knowledge, as well as taking into consideration the chaotic nature of the world at present.

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**Keywords;** *Brain Functions, Temporal Lobe, Evolution Theory, Cosmos, Quantum Theory, Double-Split Experiment*

## 1. Introduction

There are a lot of books and sources about the brain , about quantum mechanics, and about religious subjects. However, the fact that we come from gas and dust, and the fact that our essence is comprised of strings both make us a great family inhabiting the universe, and this matter should be clearly underlined and loudly emphasized. For all of us to take a close look at these subjects, we must put all this knowledge on an axis and maybe cultivate a new model of living. Looking through the differing belief systems, there are lines of thought that support these belief systems, such as brain functions and the theory of evolution. On the other hand, there are cases, such as information on the Cosmos and quantum mechanics, which do not support these belief systems.

## 1. Supports of Belief Systems

### *Brain*

Our brain is the organ that serves our belief systems. People form a framework for their experiences via their brains, and they begin seeing meaningful connections between everything that happens around them. They interpret and live life according to this framework. Belief is driven out of the emotional parts of the brain, and it activates the prefrontal cortex which processes reward, emotion and taste. However, there are different areas involved in intense religious emotions and experiences, and since generally the brain functions as a whole, we cannot say that there is a single God spot. There is neither a specific part of the brain that is related to consciousness and awareness, nor memory and experience. The basis of all these brain activities is the exchange of electrical information among the neurons through synapses. (Carter, 2009)

The brain is composed of three parts physically; the brainstem, cerebellum and cerebrum. The brain  
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stem regulates 'almost automatic' movements such as heartbeat, breathing, blood pressure, as well as coughing, swallowing and sneezing. This is the part that is designed for survival. The cerebellum is the part that is concerned with fine motor control, coordinates bodily movements, such as balance, posture and equilibrium. The largest part of our brain, the outermost layer is called cerebrum, and it is divided into two hemispheres that communicate with each other through a thick track of nerves called corpus collosum. (Carter, 2009)

Our brain hemispheres are divided into four lobes. The frontal lobes are concerned with thinking, planning, organizing, problem solving, short-term memory and movement. Parietal lobes interpret sensory information, such as taste, temperature and touch. The occipital lobes process images from our eyes and link that information with images stored in memory. (Eagleman, 2011)

The temporal lobes process information from our senses of smell, taste and sound. They play a role in memory storage as well. Thalamus takes information from all the senses (except smell) and sends them on to various parts of the cerebral cortex. So, it is called the gatekeeper of the brain. Hypothalamus controls emotions, reregulates our body temperature and controls some urges such as eating or sleeping. The hippocampus sends memories to appropriate sections to be stored and recalled when necessary.

Amygdala participates in learning how to approach or avoid things and is related to our emotions. The insula is described as the part that describes what it feels like to<sup>1</sup> human. The cingulate cortex (anterior and posterior cingulate cortexes) has important roles in cognition and affect, endocrine responses, emotional memories, pain and perception. Broca's area has a critical role in speech and language. The nucleus accumbency is related to rewarding, eating food, having sex, taking drugs, in short; addiction habits.

There are also pituitary and pineal glands in the brain that support the functions of the brain. The brain is the sole organ in the body that does not know what to do, it learns subsequently based upon feedback. The mind always seeks for patternicity, and the brain supports this. Thus, unknown is reduced to a pattern. Even when the unity of the pattern is inconsistent and unreliable, lacking the adhesive, the brain manages to sustain it. The slightest change or damage in the brain can cause

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prominent differences. The mechanism under which brain functions enables us to have spiritual or religious feelings. (Carter, 2009) In fact, religion is the shape given to spiritual feelings. Richard Dawkin says: 'Programmed belief is a by-product of evolution'.<sup>1</sup>

Religion is imprinted in our brain circuitries during the early development of our childhood. So, the decision to be religious is not open to our free will. Chemical messengers, like serotonin, affect the processes whereby religion is indoctrinated in our brains. This indoctrination is acknowledged as quite useful for parents because the instructions issued by them to their children, protect their children from danger. Religious ideas are passed on from generation to generation like this, being supported by the parents and all the other external authorities. Social copying is an efficient mechanism from which the children learn. Not only parents use this mechanism, but leaders as well as it is an excellent instrument to bind groups and keep them together. (Swaab, 2014)

Hyper logically, in some studies, has been associated with frontal temporal dementia, mania, obsessive compulsive behavior, schizophrenia and temporal lobe epilepsy. Temporal lobe epilepsy patients sometimes have ecstatic experiences that cause them to think they are in direct contact with God. Between attacks, these people develop Geschwind syndrome. They display symptoms such as obsessive writing, loss of interest in sex, extreme religiousness, euphoria, modesty, a strong moral sense, aggression, depression, extreme piety and suicidal tendencies. Joan of Arc (<https://www.biography.com>, 20,12, 2017) , Vincent Van Gogh (<https://www.biography.com>, 20,12, 2017) and Dostoyevsky (<https://www.goodreads.com>, 20,12, 2017) are some of them.

We have many data in our hands to blend the brain's physiology with the belief argument. The cerebral cortex is convenient for advocacy and provides a solid base to justify. Neurotransmitters transmit signals from one cell to another. And establish connections in this way. Dopamine carries delight and pleasurable sensations, serotonin carries trust, oxytocin carries affection, sacrifice and devotion, endorphin bonds socially and hinders pain, as well as delivering hurt and agony sensations. Synchronically activities create cooperation. All of this may explain how sacred rituals and ceremonies provoked an increase in the secretions of the neurotransmitters and helped ensure our ancestors survived. (Swaab, 2014)

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<sup>1</sup> Richard Dawkins proposes that religious devotion is established through education and maintained over generations by social learning.

The brain shapes our world subjectively and is the hardware we need to survive. There would be no thought, no feelings, no actions or reactions and we would not be able to maintain our lives without the brain. When anyone wants to look through the gateway of belief systems, the brain is the first place to visit because if the mechanisms in the brain had not prepared an appropriate environment and supported the need for believing, these systems would have lasted over time.

Threats and intimidation are quite effective in uniting people, in turning them into a group and dictating to them. From the public point of view, the idea of belonging to a group and getting protection from the fellow members of that group is irresistible. It is easy to be seized with the feeling that belief systems add meaning to life. It is so captivating to be able to rely on a big presence that you can call on when you are in trouble. It is so comforting to know you are being supported by a higher source, one you can turn to when you need consolation. We believe in this big sublime and the sole creator; he is closer to us than our jugular vein. However, researchers are united around the position that since there is only one God, it is not logical for him to send different systems, at separate times. They must be the same and must unite humanity does not separate us. (Swaab, 2014)

## 1. The Theory of Evolution

According to Darwin's (<https://globalchange.umich.edu>, 24,12,2017) evolution theory; all the organisms share common ancestors with other organisms.; however, over time, they had divided into different species, gradually and slowly. He supported his claim documenting the fossil records of the animals.

From one generation to the next, the struggle for resources would favor the species who could attain them. Then, within the population, some variations in traits took place, and this is called natural selection. Natural selection goes on within species according to the degree of their perfection. When the species is perfect and strong, it survives and evolves.

So, the theory of natural selection<sup>2</sup> is so influential to survive physically, to reproduce and maintain our lives. When people gather to form a group, they become strong socially; three ensure their security. Religious beliefs help organize relationships between people providing them with the means

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<sup>2</sup> Natural selection is the process through which species adapt to the environments.

of detecting dangerous agents and intentions.

## 2. Other reasons that support belief systems

The requirement for attachment gets its source from the oxytocin hormone secreted, which presents us with the need for something greater than us to whom we can run when we are in trouble; someone who loves us unconditionally. We lift our hands towards the sky, we invoke God, and we take shelter in his omnipotent power for him to protect us. Religion grants us this parent whom, in his presence, we feel like a baby caressed. This situation is again related to the brain's physiology, and how it governs us. (Thompson JR, 2011)

Believing in the mind and body distinction is another reason we need belief systems. It is the basis of all methods of manipulation on faith. All the imposed supernatural belief systems depend on this distinction. It is the same mechanism that causes us to think we are different and separate from God. Another reason we have belief systems is separated cognition<sup>3</sup>. This is the key to the systems. We try to get in touch with the powers or beings other than ourselves who are not with us. Here suspicion is suspended just like in the movies. We tear our cognition apart from time, place and environment.

We also have tendency to believe that everything has a reason and a purpose. Our need for a purpose and order are fulfilled by religions and belief systems. Another facilitator from the religious perspective is our respect for authority. Religion uses and exploits this human trait to the utmost. (Thompson JR, 2011)

All these mechanisms, together with the brain's physiology, make us open to belief systems, expose us to their effects, and render us vulnerable. These systems persuade us that without religion we would be devoid of ethics and a mythos, which is not correct. With our mirror neurons we imitate other people's behaviors. Our empathetic capacity is innate, and our brains are designed this way. (Dawkins, 2006)

## 3. Non-Supporters of the Belief Systems

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<sup>3</sup> Ability to separate the components of memories into distinct complex memory representations.

As we examine belief systems, we see that the process of the brain, the theory of evolution and certain psychological reasons scientifically support these systems and explain why people need them. However other realities, such as the Cosmos, human history, an examination of the origins and the details of the belief systems, the chaos currently enveloping the world, and the quantum theory, obviously do not.

## a. The Cosmos

Before the 1920's, astronomers believed the Cosmos to be eternal and unchanging. We knew of only one galaxy and a few million stars. Currently, there are many ideas about how the universe was formed. Alexander Friedman ([www.astronomi.net.tr/astronomi/1020/alexander-friedmann.aspx](http://www.astronomi.net.tr/astronomi/1020/alexander-friedmann.aspx), 04,02, 2018) put forth the idea that the universe was formed by an explosion called Big Bang. Then, in 1929, the astronomer Edwin Hubble (<https://www.biography.com>, 26 December, 2017) observed that the galaxies were moving away from each other, and he formulated a law to explain how the universe is expanding. In 1989, Nasa sent a satellite named Cube into space which proved that space is constantly expanding at an increasing rate.

Another theory is that there are millions of universes, yet ours is the most perfect one, and the only one which life exists. This is called the *Metaverse Theory*. According to the *Grand Design Theory*, the universe may be a simulation that has been created by another presence or community. Again, another theory is that the universe was created by God saying 'be' and this is what caused the Big Bang.

Another theory claims that the universe was created from a vacuum. This idea supports quantum theory for, according to it, a quiescent vacuum is not empty at all. It is possible for an electron and a positron to materialize from the vacuum. The probability of an object materializing decreases dramatically with the mass and the complexity of the object; however, it is still possible. Yet the question is: 'Where did the empty space come from?' In 1982, Alexander Vilenkin (<https://www.edge.org>, 26 December, 2017) proposed the idea that the universe might have started in totally empty geometry then made a quantum tunneling transition to a non-empty state, which led to inflation, and its current size.

According to Stephan Hawking ([www.hawking.org.uk](http://www.hawking.org.uk), 26,12,2017), the universe might be a self-

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contained entity with no reference to anything that might have come before it. And it might have come out of nothingness because of the physical laws of the Big Bang. Although he proclaimed that there might a role for God in the creation of the universe in his book *A brief History of Time*.

In his *M-Theory*,<sup>4</sup> Hawking set forth that the universe had been created by itself because of physical laws, without any intervention of a supernatural power. M signifies the master, the miracle and mystery. (Hawking, Mlodinov, 2010).

Every step-in science turns on new horizons. We must go over all the possibilities about how the universe might have started; we must discuss every fact that science has revealed and presented for our cognition.

The universe is 13.8 billion years old and a radiant fireball filling all space before the explosive event called Big-Bang. There were no galaxies, stars, planets and no life or civilizations. The entire universe, matter, energy and space, occupied a very small volume. There was just a single hot condensed point containing all the matter in the universe; it was a state of singularity. All four fundamental forces- gravitational, electromagnetic, strong and weak- were unified as a single force. After the explosion, the universe expanded at a rate faster than the speed of light, growing from subatomic to golf-ball size in 10 to 45 seconds. Scientists call this the inflationary period. As space stretched, matter and energy expanded with it, and rapidly cooled. Space was brilliantly illuminated in the early universe. (Sagan, 1981)

The universe is thought to consist of three types of substance: 5% normal matter, 25% dark matter and 70% dark energy; 99% of the normal matter is hydrogen and helium.

After the Big- Bang,<sup>5</sup> the distribution and formation of matter in the universe occurred by the interaction of atoms. (<https://m.facebook.com/notes/bilim-felsefe>, 26,12, 2107)

After the universe had grown a few million years old, the matter which was composed of hydrogen and helium began to be squeezed by the effect of mass gravity. By being exposed to various irregularities, they clustered in specific regions and created first star constellations and sky sets. Stars and planets were born from the condensation of the interstellar gas and dust, which were composed

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4 A theory in physics that unifies all consistent versions of superstring theory.

5 The theory states that about 13.7 billion years ago all the matter in universe was concentrated into a single tiny point.

mostly of hydrogen. When a star is suddenly and greatly increases in brightness because of an explosion, it is called a *supernova*. When a sun dies, *red giants* and *white dwarfs* are formed from the explosive deaths of massive stars *neutron stars* are born. Rapidly rotating neutron stars that emit pulses of radio waves are called *pulsars*. *Quasars* are galaxies with a massive black hole in the center. *Asteroids* are small rocky bodied orbiting the sun. A few of them pass close by the Earth or enter the atmosphere as *meteors*. (<https://m.facebook.com/notes/bilim-felsefe>, 26,12, 2017)

Earth was condensed out of interstellar gas and dust about 4.5 billion years ago, 10 billion years later than the Big-Bang, One-celled organisms were the first living things on Earth. It was an incredibly lucky coincidence that the Earth was perfectly suitable for life. All the living things have adapted to life on Earth. About one billion years ago, 3.5 billion years after the creation of one-celled organisms, plant life made a striking change on Earth by working cooperatively. Oxygen became a major constituent of the Earth's atmosphere because of the green plants generating it. (Sagan, 1981)

For three billion years, only blue-green algae evolved, but soon after the *Cambrian explosion*, the Earth began to be inhabited by plants and animals. This is thought to have happened because of a steep rise in oxygen. Most lineages of animals originate from that time, and it is called the turning point in the Earth's development some 545 million years ago.

The first fish and the first vertebrates appeared; plants also began colonizing the land. The first insects evolved, then winged insects and amphibians that could survive both on land and in the water appeared. Following this, the first reptiles, trees, the dinosaurs, the mammals and the first birds emerged, respectively. Dinosaurs are now extinct, as are some of the other species. Dolphins and whales appeared. Then finally, ten million years ago, the first creatures that resemble today's humans evolved. When it comes to the first true humans, they only arrived on the stage a few million years ago. (Sagan, 1981)

In the Cosmos, we do not know yet if there is life on other planets or galaxies; however, it is highly likely there is, for the universe is so capacious and exalted beyond our conception. When we question and investigate the belief systems in the world, we must take into consideration what the Cosmos is, where we are in the Cosmos, and when life began in the Cosmos and when and how humans became involved in everything. We must integrate all the data and then extrapolate a conclusion, which will not necessarily be the ultimate answer. It will only provide us with the latest current knowledge.

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Scientists assert

that if we hold on to our taboos, we cannot be creative and cannot progress.

## **b. Human History**

Humans evolved from apes 2.5 million years ago. From two million up to ten thousand years ago, a lot of various kinds of human existed. Sapiens have existed for 200 000 years and eradicated other human species 10 000 years ago. The first settled societies appeared in Mesopotamia, in around 5500 BC. In 1300 BC, Tutankhamun restored his nation to worshipping Egyptian gods. In 1200 BC, Moses led his people out of Egypt. In 5 BC, Jesus was born, and 30 AD is the date of the crucifixion of Jesus. The book of revelations is written in AD 95. 610 AD is the year Muhammed had his visions, in 625 ADS, he started his dictation of the Kuran. (<http://humanhistorytimeline.com/>, 27,12, 2017)

This is a small history of the world; it is important because it shows us how old the world is, and how young belief systems are.

## **c. Origins of Belief Systems**

We learn life and thought patterns from our customs and traditions. These are reflected in art and religion and are transmitted to the following generations through myths and tales. It is true that it is hard to experience the world, everything from the beginning, without any road to guide you. Humanity needs some patterns and lanterns to light the paths; however, these patterns should not block our journey or obscure our future. God has created life and everything, so; we naturally feel His presence. We have faith because we feel His presence, but the problem is that sometimes people have religion without faith. (Harari, 2012)

Religions are born, evolve and die as do other historical entities. Each religion takes its roots from the previous ones. Some of them are God-centered, some hang on to the laws of nature. God-centered religions may be monotheistic or dualist. The main monotheistic religions are Judaism, Christianity and Islam.

It's obvious that the divine matter, religions and belief systems, could have never compromised neither among each other, nor even within themselves. People fought and fought through the ages, shed a lot of blood and did whatever God told them not to do. The worst is killing other human beings.

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Some systems convinced themselves that it's licit if it's done in the name of God. How can wars and genocides be allowable, how can God justify and tolerate this? Either they must have misunderstood or maybe have been distorted. As a conclusion, the belief systems, arrived to provide people live in peace fraternally, exacerbated the conflicts contrarily, or at least couldn't win through. A lot of sects and cults grew out of each of them. Hundreds of them arise every ten years. Here in this work, it is aimed to question if they serve the purpose.

#### d. The Quantum Theory

Quantum theory must also be considered, when the subject is the belief systems, for it has affected the whole science and our universe concept radically in a staggering way. Quantum physics as well as cosmology doesn't support belief systems because in this theory; it is proved that the essence of everything is the same matter. No one can ignore the knowledge about quantum mechanics that has entered our lives since the middle of 1920 s. However, this new concept is strange a little bit and collides with some of the old science, it exists powerfully, and it is acknowledged henceforward.

De Broglie ([https://www.nobelprize.org/nobel\\_prizes/.../broglie-bio.html](https://www.nobelprize.org/nobel_prizes/.../broglie-bio.html), 01,02, 2018), grounding his experiments on Einstein's photon equations, worked with electrons and helium atoms and confirmed that the particles also behave as waves. He commented that being a particle or a wave is the two separate view of the same entity. Heisenberg (<https://www.nobelprize.org/nobel.../heisenberg-bio.html>, 31,01, 2018), one of Bohr's (<https://www.britannica.com/biography/Niels-Bohr>, 31,01, 2018), most brilliant students, showed that, in quantum world, objects do not have separate properties of momentum and position. According to his Uncertainty Principle<sup>6</sup>, it's impossible to calculate the momentum and position of the particles, at the same time, at the atom level.

Schrödinger's cat (<https://www.britannica.com/biography/Erwin-Schrodinger>, 31,01, 2018) experiment is quite famous and is identified with the quantum knowledge. Schrödinger wanted people to imagine; a cat, poison like cyanide, a glass and a Geiger counter that records the presence of the radioactive particles, radioactive material, and a hammer were inside of a sealed container. The amount of radioactive material was minuscule enough that it only had a 50/50 shot of being detected

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<sup>6</sup> We cannot know both the position and speed of a particle, such as a proton or electron, with perfect accuracy.

over the course of an hour. If the Geiger counter detected radiation, the hammer would smash the poison, killing the cat. Until someone opened the container and observed the system, no one could know if the cat was dead or alive. It was in a superposed position; dead, and alive at the same time. After the box is opened the wave function collapses, and one of the realities becomes true.

The wave-particle duality of quantum mechanics, dictates that all quantum objects, massive or otherwise, can behave as either waves or particles. According to the results of the double-split experiment when electrons are detected, they seem to act differently. It's strange but they seem to be able to choose, demonstrating that observation affects the consequence. When the wave function collapses, it leaves its place to a single reality. Quantum probabilities turn out to a single probability. In this occasion we have only one universe in which we used to live. This is the famous Copenhagen interpretation<sup>7</sup> which is named like this; because it is cultivated by Niels Bohr and his student Werner Heisenberg in Niels Bohr Institute, which is in Copenhagen.

Feynman (<https://www.britannica.com/biography/Richard-Feynman>, 02,02, 2018), worked forward on this and proved that; for the particle, there is unlimited number of ways to choose and it uses all of them at the same time. More than that, even if it passes from one split, it can turn back and choose the other split. In the later experiments done, scientists tried to fake the electrons, and tried to calculate them after they had made their choices and passed from one split. What they had observed surprisingly was that; they were able to turn back and function as particles even if before they functioned as waves. This experiment indicated that time was two-sided and not liner which created a great topsy-turvy shock to everybody. (Murray, 2017)

All this quantum knowledge had to be explained because, they are displaying us a completely different reality and drawing a completely distinguished dimension in front of our eyes, that we couldn't even come close to imagine, up to the recent times. And it's necessary to go on with the quantum mechanics as far as we can because; with each knowledge we see that; no knowledge is the final one, evidencing that we shouldn't turn any belief to a blind faith. Even just at the time, that we are the surest of, everything may be so different than we know. As we go over the quantum principles,

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<sup>7</sup> A quantum particle doesn't exist in one state or another, but in all of its possible states at once.

a lot many other aspects will be displayed onto our discussing platform, making us doubt everything we know. There are so many more scientists that contributed to the quantum physics, whom couldn't have been mentioned because of either insufficient knowledge or pages. However, it is explained here as far as it is needed to perceive that the principles of quantum World goes well with the belief of God, however, doesn't get along well with the religions, for they are so stiff, harsh, absolute, decisive, rethought and are closed to interpretation. In the World of undecisive electrons, religion may seem absurd to some of us, who weren't raised under strict conditions and rules with religious parents.

According to the uncertainty principle whenever we want to calculate the position and the momentum of a subatomic particle, as clear as possible, we reach it the less. Likewise, whenever we want to calculate the spin of a particle, meaning which way the sub-atomic particle turns on a certain axis, we affect the spin and disrupt it irrevocably. Alan Aspect ([https://physics.aps.org/authors/alain\\_aspect](https://physics.aps.org/authors/alain_aspect), 02,02, 2018) proved this by his experiments he did with calcium atoms and using three calculators. The first experiments were done in the years of 1980s. And then it was repeated maybe thousands of times, which resulted giving the same data: Uncertain, always different, can't be foreseen, unpredictable... It seems that subatomic physics rules are so different than the physics rules we know. (Murray, 2017)

When Fewer ([https://www.goodreads.com/author/show/84127.Adam\\_Fawer](https://www.goodreads.com/author/show/84127.Adam_Fawer), 02,02,2018), mentions a presence who knows all the entities, forces and positions and can calculate all the outcome of the data, and the choices of these entities, he must be talking about God. And yes, certainly he can calculate the consequences of the choices, however here again, the attention should be drawn to the subject that, God might have given humans the right to choose. Again, another important subject here is that; However, God may calculate the consequences, every moment infinite number of new choices are made, and the most critical subject is that according to the quantum rules everything might occur at the same time because the time is not linear. We must remember the experiment done with electrons; double-split experiment, the electrons had the ability to turn back and change their choice. Another striking topic is that; in addition to the quantum theories, there is a version, that assumes, in very choice made, a new parallel World is opened. (Fawer, 2007)

Quantum universe is just like this, in an immense, boundless matrix, full of infinite options and

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possible outcomes, in which everything and everyone are intertwined and affect each other independent of time and place. Thanks for Einstein

([https://www.nobelprize.org/nobel\\_prizes/.../einstein-bio.htm](https://www.nobelprize.org/nobel_prizes/.../einstein-bio.htm), 31,01, 2018), who found that:  $E=mc^2$ , for it was maybe a turning point showing that emery equals to matter. When he said, 'God doesn't play dice', he meant every consequence has a reason. However, God doesn't play dice, he has granted humans to make choices. (Murray, 2017)

Free-will clearly explains the evil in the World. However according to the most religions there is no free-will. The trances mentioned in religions may be somewhat like being at the quantum level, being one with the universal intelligence. In quantum the energy we radiate turns us back, as boomerang, which may be congruent to the idea, which is put forth in religions as; 'be kind to people, goodness finds goodness.' However, religions try to impose this idea with the fear of God, there is a reality that everything turns us back. (Taslaman, 2008)

The quantum theories and principles are hard to piece together. Maybe starting from the beginning will be useful. The smallest units discovered in the universe are *strings*, single-dimensioned particles whose dimensions are  $10^{-33}$ . It's hard to envision this dimension even for a physician, because when we add 1,000,000,000,000,000,000,000,000,000,000 of them together, we barely obtain a height of 1 cm. (Cetin, 2001)

All the universe is made up of these strings which are vibrating single-dimensioned particles. Everything we see or even the air we don't see, the living and also non-living things and everything without exception is strings. They are vibrating energies, and they have frequencies. If their frequencies are not high enough, we can see these living and non-living things. But if their frequencies are high, we cannot see them. We perceive solely the 4 dimensions of this hyperspace however there are 6 other dimensions we cannot perceive. The reason we perceive every object different, as different thing, living-nonliving is because of the difference of their frequencies. However, they are all the same matter: Strings.

(Cetin, 2001)

The fact that, the basic essence of everything is the same, must guide us to the path that; there is no reason to perceive ourselves distinguished from others, we must love and respect all the creation. And admit that, the creation, the source, the energy or whatever we call it, binds and holds us together. It's

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impossible for God to expect us to exclude each other.

The universe is organized in a holographic system. We are all the pieces of the same wholeness. We are bound to each other in time and place. The information about the whole is inscribed in the essence of every presence in the universe. The information is everywhere. However, every entity present in the universe perceives the universe in a unique way, and maybe this is the cause of all the illusions. The science of Newton assumes that a whole must be separated into pieces to be analyzed, however comprehensive approach claims, the whole is basis, and is more than the sum of the pieces. Holism<sup>7</sup> asserts that, to understand better their nature and goal, the entities should be taken in hand. (Camat, 2008)

To look at things and cases interactively, requires accepting all the options as true at the same time. Everything according to quantum is possible. Nothing is black or white, everything is gray, grizzled. According to the quantum principles, human consciousness decides what the reality is with the help of his consciousness level. And every observation is a reduction and a local interpretation of the holistic structure, and the collapse of the wave function. (Alatl, 1999)

When we assume the boundless universe, we can easily perceive the meaning of prayer and how every thought and feeling can easily travel through the universe as energy, faster than light. This is the remote effect in quantum principles.

All the universe is like a quantum mirage. Everything is a winking light. In fact, in universe there is nothing more than vibrating energy fields. However, our perceptions are too slow to detect these energy fields. Quantum vibrations can't be detected by our brains which can only perceive solid matters. This is just like; a film comprising of 24 pictures in a second and our not being able to notice this. Real life is even faster than this. We are winking lights, there is a dark vacuum in between every flash, as if we are being recreated constantly. (Chopra, 2003)

This quantum mirage is bound to each other such that; the particles can't be cut and separated from each other and from their environment, and they are in a constant relation. The environment mentioned is the void and it conjoins all the subatomic quantum universe in an invisible web. According to the quantum mechanics there is not any detached particle in the universe, everything is

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<sup>7</sup> Parts of a whole are an intimate interconnection, cannot exist and understood independently.

intertwined independent of space and time.

From all these investigations it is observed that the brain's physiological mechanism supports the belief systems. First, it is a medium of our detecting, discerning and interpreting environment and attributing meaning to the outside World and our lives. We are perceiving the outside World via our brains. We may sometimes tap into the ZPE and get inspiration which is as well intrinsic and personal. So, when we talk about the revelations, apocalypses, commandments or so on, we must acknowledge that they are intrinsic to these people. Especially when we have the results of Persinger's ([www.independent.co.uk](http://www.independent.co.uk), 20,12,2017) God helmet <sup>8</sup> experiments showing us that temporal lobe activation causes feeling of God, we have to question all the belief systems from the beginning. Though we know from the neurological investigations that our brains are wired differently, almost a vast majority of Persinger's patients reacted similarly during the experiments: Stimulation of the temporal lobes causes various divine feelings. Evolution Theory supports these belief systems as well because; when people come together and form a group, protecting and supporting each other help them to be strong and give them a better chance to survive. However, when we look at the cosmology and quantum physics, it becomes hard to frame the belief systems. The cosmos is 13,7 billion years old; our World is 4,5 billion years old, and humans have existed since 2,5 million years. And the belief systems have existed for only a truly brief period, compared to the history of the cosmos, the galaxies and the World. Besides there are thousands of them because every person has a different perception.

Seventy percent of the Cosmos is dark energy, 25 % is dark matter and the rest is normal matter. The essence of all the universe, visible or invisible is the same; strings. Everything has come out of dust and gas very rapidly, in a time shorter than a second but everything happens at the same time, and the time isn't linear as we assume. Anyway, already time can be buckled and through the wormholes, other times and places can be reached. The probability of existing parallel universes is extremely high because; if the electrons can be at many unusual places at the same time, it's reasonable the same thing to happen with the universes. (How can you explain zero-point energy to a non-physicist? 14,02,2018,)

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<sup>8</sup> Experimental apparatus invented to study religious activity of the temporal lobes.

## 4. Conclusion

God granted every entity and presence, including the electrons and the universes the chance to choose. Humans perceive the universe, reach and obtain as much knowledge and inspiration possible, via their brains. The scientists believe that the people that establish all these belief systems may be the people who are inspired differently from ZPE<sup>9</sup> by their distinguished perception. God may be the source energy that binds all the matter and energy to each other.

According to the philosophers, it is obvious that these systems are being used by some people who wants to manage the World. Their desire of power, their political whims, their greediness and many other ambitions combining with the religious taboos cause so many chaos and agony. If we are not satisfied with what is being lived today in the World, we must be sure that we can choose. We can choose to be one, we can choose to embrace the whole World and we can choose to contribute beauty and goodness to the universe. When we choose to do this today; the past, today and the future may be healed at the same time.

## 5. Results

It's not solely belief systems that cause dissociation, our egos mislead us as well, so that we can protect ourselves in order to survive. Humans can find millions of reasons to exclude each other. They have been exposed to being imposed and inscribed with different beliefs and taboos since the very beginning of their lives when they were children. They don't know that their essence is the same. They come from dust and gas; they are all strings. They focus on the differences, and they never come to understand each other. Nevertheless, we need to discern that the dissociation is an illusion and, we are all one. And they must be taught to refer science as their loadstar. If the children are taught quantum principles, cosmology, brain's functions and spiritual tenets, in schools, life will be happier and easier for all of us. We will embrace the whole World and live in cooperation with love and respect.

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<sup>9</sup> ZPE is the zero-point energy, the lowest possible energy that a quantum mechanical system may have.

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