

The Universe Science & God

By Aftab Khan

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In the name of Allah, The Most Gracious, The Most Merciful

There is no one worthy of worship except Allah and Muhammad is messenger of Allah

“Soon shall We show them OUR SIGNS in the UNIVERSE and in their OWN SELVES, until it becomes clear to them that this QUR’AN IS INDEED THE TRUTH. Is it not enough that your Lord is a witness over everything?”(Qur’an;41:53); “We did not create heaven and earth and everything between them to no purpose. That is the opinion of those who disbelieve...” (Qur’an; 38: 27), “Verily in the heavens and the earth are Signs for those who believe. (Qur’an; 45:3). “To God belongs the Mystery of the heavens and the earth. And the Decision of the Hour (of Judgment) is as the twinkling of an eye, or even quicker: for God hath power over all things.” (Qur’an; 16:77). “Let there be no compulsion in religion: Truth stands out clear from Error: whoever rejects evil and believes in God hath grasped the most trustworthy hand-hold, that never breaks. And God hears and knows all things.” (Qur’an; 2:255).

THE UNIVERSE SCIENCE & GOD

By: Aftab Ahmad Khan



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Author:



Aftab Ahmad Khan is involved in voluntary research on Semitic religions. He retired from Pak Army as Brigadier. He holds Masters in Business Administration, Political Science, post graduated in Strategic Studies. He observed divergent cultures during his stay & world wide travels to North America, Europe, Middle East, China, Far East and Australia. As a freelance writer his articles are regularly published in journal, also compiled in the form of e-books & posts available at web links, blogs and social media, all grouped under the title: "PEACE FORUM NETWORK". The main themes are Religion, Abrahamic Monotheism, Interfaith Dialogue, Ethics, Science, Culture, Spiritually & Peace.

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Preface:

Science is beginning to see the entire universe as an interlinked network of energy and information. Our capacity for fulfillment can come only through faith and feelings. But our capacity for survival must come from reason and knowledge." The follower of 3 great monotheistic faiths believe that God created the universe and governs it as per His laid down rules. The atheists reject such a set of beliefs. In philosophy there are many rational, metaphysical, logical, empirical, or subjective arguments for the existence of God. Interestingly the conclusions reached by science recently were mentioned 1400 years ago in the last Testament; The Quran which is the subject of discussion here. To derive maximum benefit it is suggested that the book may be read with an open mind keeping aside the existing ideas.

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THE UNIVERSE SCIENCE & GOD

Chapter1 : Introduction

A central, common core of Islam, Judaism & Christianity is the affirmation of the reality of One, and Only One, God. Adherents of Abrahamic faiths believe that there is a God who created the universe out of nothing and who has absolute sovereignty over all his creation; this includes, of course, human beings, who are not only utterly dependent on this creative power but also sinful and who, or so the faithful must believe, can only make adequate sense of their lives by accepting, without question, God's ordinances for them. The varieties of atheism are numerous, but all atheists reject such a set of beliefs. In philosophy there are three major, purely rational, arguments for the existence of God that have had a significant influence on the history of philosophy of religion. A wide variety of arguments exist which can be categorized as metaphysical, logical, empirical, or subjective. The existence of God is subject to lively debate both in philosophy, the philosophy of

religion being almost entirely devoted to the question—and in popular culture. Certain theists acknowledge that belief in the existence of God may not be amenable to demonstration or refutation, but rests on faith alone. The atheistic conclusion is that the arguments and evidence both indicate there is insufficient reason to believe in the existence of God, and that personal subjective religious experiences are indistinguishable from misapprehension.

Philosophers and theists have come out with many popular arguments to support the existence of God: The cosmological argument argues that there was a "first cause", or "prime mover" who is identified as God. The teleological argument argues that the universe's order and complexity are best explained by reference to a creator God. It starts with a rather more complicated claim about the world, i.e. that it exhibits order and design. The hypothesis of Intelligent design proposes that certain features of the universe and of living things are the product of an intelligent cause. The ontological argument is based on arguments about a "being greater than which

cannot be conceived". The anthropic argument suggests that basic facts, such as humanity's existence, are best explained by the existence of God. Some philosophers see the existence of Qualia (or the hard problem of consciousness) as strong arguments against materialism and therefore for the existence of material and immaterial entities. The transcendental argument suggests that logic, science, ethics, and other serious matters do not make sense in the absence of God, and that atheistic arguments must ultimately refute themselves if pressed with rigorous consistency. The atheists believe that existence of God cannot be proved through science. However the Muslims scholars like Harun Yahya, Dr.Zakir Naik and many others have done a lot of research work to prove it scientifically, which forms basis for this paper. Let's start with the biggest thing, The Universe.

Chapter-2: Universe Models

Universe: Sign of Creator:

The universe is commonly defined as the totality of everything that exists, including all matter and energy, the planets, stars, galaxies, and the contents of intergalactic space. Definitions and usage vary and similar terms include the cosmos, the world and nature. Scientific observation of earlier stages in the development of the universe, which can be seen at great distances, suggests that the universe has been governed by the same physical laws and constants throughout most of its extent and history. There are various multiverse theories, in which physicists have suggested that our universe might be one among many universes that likewise exist.

The universe is immensely large and possibly infinite in volume. The region visible from Earth (the observable universe) is a sphere with a radius of about 46 billion light years, based on where the expansion of space has taken the most distant objects observed. For comparison, the diameter of

a typical galaxy is only 30,000 light-years, and the typical distance between two neighbouring galaxies is only 3 million light-years. As an example, our Milky Way Galaxy is roughly 100,000 light years in diameter, and our nearest sister galaxy, the Andromeda Galaxy, is located roughly 2.5 million light years away. There are probably more than 100 billion galaxies [10^{11}] in the observable universe. Typical galaxies range from dwarfs with as few as ten million [10^7] stars up to giants with one trillion [10^{12}] stars, all orbiting the galaxy's center of mass. A 2010 study by astronomers estimated that the observable universe contains 300 sextillion 3×10^{13} stars.

The part where the Universe isn't just bigger than you can possibly comprehend, but according to recent evidence, billions of times larger than that. What It Says: That the universe is big, so big, that just that fact, just its mere bigness, is enough to blow your tiny ant mind. And it just keeps getting bigger. Let's examine the famous Hubble Ultra Deep Field image, the most massive photo ever taken. It shows that there are approximately 10,000 galaxies. Each of those galaxies contains

anywhere from ten million to one trillion stars. The average star is roughly a million times the size of Earth.

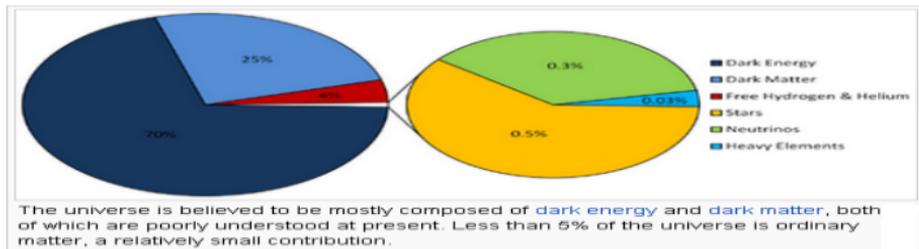


This high-resolution image of the [Hubble Ultra-Deep Field](#) shows a diverse range of [galaxies](#), each consisting of billions of [stars](#). The equivalent area of sky that the picture occupies is shown as a red box in the lower left corner. The smallest, reddest galaxies, about 100, are some of the most distant galaxies to have been imaged by an optical telescope, existing at the time shortly after the Big Bang.

And yet, with all that junk, the Universe is more

than 90 percent empty space. All of that, in this tiny photo. A photo that took 400 orbits and 800 exposures to take. And the kicker? The photo covers one thirteen-millionth of the entire night sky.

If you are like us, it leaves you alternately awash with spiritual wonder and horrified feelings of utter insignificance. Actually imagining just how infinitesimal you are in the scope of the universe is like autoerotic asphyxiation: it's not as pleasant as you would think, and if you do it wrong you can end up a vegetable. You possibly imagine that much space and that many planets and stars and atoms smashing together without intelligent life forming? Now its just a matter of getting around that pesky general relativity and well be chilling with aliens in no time. Or, like, a million years.



So all that just said about how big the universe is (at least 90 billion light years)? That is small beans. The Cosmological Horizon is here to make your day a whole lot more complicated. Since we can only observe stellar bodies that have had some effects on us (usually bombarding us with light), there is an outer limit to what we can see of the universe. Hence, the observable universe. What about the rest? The parts of the universe beyond our Starcraft-style fog of war? Well, according to some math we have no interest in going into, the size of the actual universe is so large that if the universe we just described (the impossibly, mind-bogglingly large one) were the size of a quarter, the actual universe would be the size of the Earth. Level Of Mind Blowingness: The sound of one hand clapping for a tree falling in the woods while no ones around except a guy whose skull is wired with C4 explosive. Hence the mere vastness of universe indicates the greatness of its Great Creator.

The Eternal Universe:

Towards the end of the 19th century, atheists formulated a world view that they thought explained everything; they denied that the universe was created saying that it had no beginning but had existed forever. They claimed that the universe had no purpose but that its order and balance were the result of chance; they believed that the question of how human beings and other living things came into being was answered by Darwinism. They believed that Marx or Durkheim had explained history and sociology, and that Freud had explained psychology on the basis of atheist assumptions.

However, these views were later invalidated in the 20th century by scientific, political and social developments. Many and various discoveries in the fields of astronomy, biology, psychology and social sciences have nullified the bases of all atheist suppositions. In his book, *God: The Evidence, The Reconciliation of Faith and Reason in a Postsecular World*, the American scholar

Patrick Glynn from the George Washington University writes:

The past two decades of research have overturned nearly all the important assumptions and predictions of an earlier generation of modern secular and atheist thinkers relating to the issue of God. Modern thinkers assumed that science would reveal the universe to be ever more random and mechanical; instead it has discovered unexpected new layers of intricate order that bespeak an almost unimaginably vast master design. Modern psychologists predicted that religion would be exposed as a neurosis and outgrown; instead, religious commitment has been shown empirically to be a vital component of basic mental health...

Few people seem to realize this, but by now it should be clear: Over the course of a century in the great debate between science and faith, the tables have completely turned. In the wake of Darwin, atheists and agnostics like Huxley and Russell could point to what appeared to be a solid body of testable theory purportedly showing life to

be accidental and the universe radically contingent. Many scientists and intellectuals continue to cleave to this worldview. But they are increasingly pressed to almost absurd lengths to defend it. Today the concrete data point strongly in the direction of the God hypothesis. Science, which has been presented as the pillar of atheist, materialist philosophy, turns out to be the opposite. As another writer puts it, "The strict materialism that excludes all purpose, choice and spirituality from the world simply cannot account for the data pour in from labs and observatories."

Assuming the validity of the old model of an 'Eternal Universe', Hugh David Politzer, an American theoretical physicist who shared the 2004 Nobel Prize in Physics, opposed the idea of a creation: The universe was not a created object, if it were, then it would have to be created instantaneously by God and brought into existence from nothing. To admit creation, one has to admit, in the first place, the existence of a moment when the universe did not exist, and that something came out of nothingness. This is something to which science can not accede. By

supporting the idea of an eternal universe against that of creation, Politzer thought that science was on his side. However, very soon, the fact that Politzer alluded to by his words, “if it is so, we must accept the existence of a creator”, that is, that the universe had a beginning, was proven.

The Big Bang:

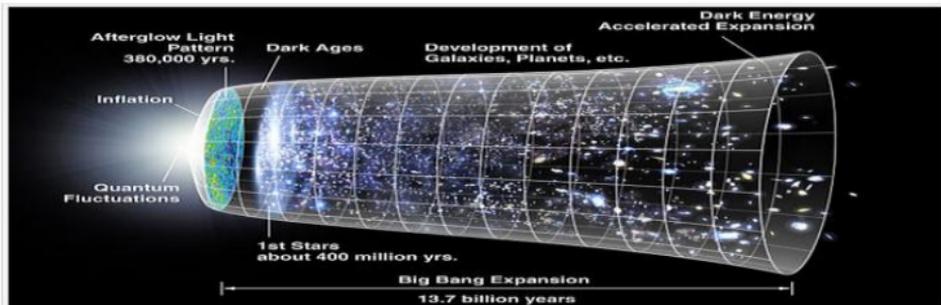
This proof came as a result of the “Big Bang” theory, perhaps the most important concept of 20th century astronomy. The Big Bang theory was formulated after a series of discoveries. In 1929, the American astronomer, Edwin Hubble, noticed that the galaxies of the universe were continually moving away from one another and that the universe was expanding. If the flow of time in an expanding universe were reversed, then it emerged that the whole universe must have come from a single point. Astronomers assessing the validity of Hubble’s discovery were faced with the fact that this single point was a “metaphysical” state of reality in which there was an infinite gravitational attraction with no mass. Matter and time came into being by the explosion of this

mass-less point. In other words, the universe was created from nothing. In the face of proven scientific facts, atheists have been squeezed into a corner. Anthony Flew, an atheist professor of philosophy at the University of Reading and the author of *Atheistic Humanism*, makes this interesting confession:

Notoriously, confession is good for the soul. I will therefore begin by confessing that the Stratonician atheist has to be embarrassed by the contemporary cosmological consensus. For it seems that the cosmologists are providing a scientific proof of what St. Thomas contended could not be proved philosophically; namely, that the universe had a beginning. So long as the universe can be comfortably thought of as being not only without end but also without beginning, it remains easy to urge that its brute existence, and whatever are found to be its most fundamental features, should be accepted as the explanatory ultimates. Although I believe that it remains still correct, it certainly is neither easy nor comfortable to maintain this position in the face of the Big Bang story.

Some materialists have a relatively logical view of this matter. For example, the English materialist physicist, H.P. Lipson, unwillingly accepts the scientific fact of creation. He writes: I think ...that we must...admit that the only acceptable explanation is creation. I know that this is anathema to physicists, as indeed it is to me, but we must not reject that we do not like if the experimental evidence supports it.

Thus, the fact arrived at finally by modern astronomy is this: time and matter were brought into being by an eternally powerful Creator independent of both of them. The eternal power that created the universe in which we live is God who is the possessor of infinite might, knowledge and wisdom.



Prevailing model of the origin and expansion of spacetime and all that it contains.

Creation Models: Criticism & Analysis:

It is patently obvious that the Big Bang means the creation of the universe out of nothing and this is surely evidence of willful creation. Regarding this fact, some materialist astronomers and physicists have tried to advance alternative explanations to oppose this reality. Mention has already been made of the steady state theory and it was pointed out it was clung to, by those who were uncomfortable with the notion of "creation from nothingness", despite all the evidence to the contrary in an attempt to shore up their philosophy. There are also a number of models that have been advanced by materialists who accept the Big Bang theory but try to exorcise it of the notion of creation. One of these is the "oscillating" universe model; another is the "quantum model of universe". Let us examine these theories and see why they are invalid.

Oscillating Universe Model:

The oscillating universe model was advanced by the astronomers who disliked the idea the Big

Bang was the beginning of the universe. In this model, it is claimed that the present expansion of the universe will eventually be reversed at some point and begin to contract. This contraction will cause everything to collapse into a single point that will then explode again, initiating a new round of expansion. This process, they say, is repeated infinitely in time. This model also holds that the universe has experienced this transformation an infinite number of times already and that it will continue to do so forever. In other words, the universe exists for eternity but it expands and collapses at different intervals with a huge explosion punctuating each cycle. The universe we live in is just one of those infinite universes going through the same cycle.

This is nothing but a feeble attempt to accommodate the fact of the Big Bang to notions about an infinite universe. The proposed scenario is unsupported by the results of scientific research over the last 15-20 years, which show that it is impossible for such an "oscillating" universe idea to come into being. Furthermore the laws of physics offer no reason why a contracting

universe should explode again after collapsing into a single point: it ought to stay just as it is. Nor do they offer a reason why an expanding universe should ever begin to contract in the first place.

Even if we allow that there is some mechanism by which this cycle of contraction-explosion-expansion does take place, the crucial point is that this cycle cannot go on for ever, as is claimed. Calculations for this model show that each universe will transfer an amount of entropy to its successor. In other words, the amount of useful energy available becomes less each time and every "opening" universe will open more slowly and have a larger diameter. This will cause a much smaller universe to form the next time around and so on, eventually petering out into nothing. Even if "open and close" universes can exist, they cannot endure for eternity. At some point it becomes necessary for "something" to be created from "nothing". Put briefly, the "oscillating" universe model is a hopeless fantasy whose physical reality is impossible.

Quantum Model of Universe:

The "quantum model of universe" is another attempt to purge the Big Bang of its creationist implications. Supporters of this model base it on the observations of quantum (subatomic) physics. In quantum physics, it is to be observed that subatomic particles appear and disappear spontaneously in a vacuum. Interpreting this observation as "matter can originate at quantum level, this is a property pertaining to matter", some physicists try to explain the origination of matter from non-existence during the creation of the universe as a "property pertaining to matter" and present it as a part of laws of nature. In this model, our universe is interpreted as a subatomic particle in a bigger one.

However this syllogism is definitely out of question and in any case cannot explain how the universe came into being. William Lane Craig, the author of *The Big Bang: Theism and Atheism* explains why:

A quantum mechanical vacuum spawning material particles is far from the ordinary idea of a "vacuum" (meaning nothing). Rather, a quantum

vacuum is a sea of continually forming and dissolving particles, which borrow energy from the vacuum for their brief existence. This is not "nothing," and hence, material particles do not come into being out of nothing.

So in quantum physics, matter "does not exist when it was not before". What happens is that ambient energy suddenly becomes matter and just as suddenly disappears becoming energy again. In short, there is no condition of "existence from nothingness" as is claimed. In physics, no less than in other branches of the sciences, there are atheist scientists who do not hesitate to disguise the truth by overlooking critical points and details in their attempt to support the materialist view and achieve their ends. For them, it is much more important to defend materialism and atheism than to reveal scientific facts and realities. In the face of the reality mentioned above, most scientists dismiss the quantum universe model. C. J. Isham explains that "this model is not accepted widely because of the inherent difficulties that it poses." Even some of the originators of this idea, such as Brout and Spindel, have abandoned it.

A recent and much-publicized version of the quantum universe model was advanced by the physicist Stephen Hawking. In his book *A Brief History of Time*, Hawking states that the Big Bang doesn't necessarily mean existence from nothingness. Instead of "no time" before the Big Bang, Hawking proposed the concept of "imaginary time". According to Hawking, there was only a 10⁻⁴³ second "imaginary" time interval before the Big Bang took place and "real" time was formed after that. Hawking's hope was just to ignore the reality of "timelessness" before the Big Bang by means of this "imaginary" time. Stephen Hawking also tries to advance different explanations for the Big Bang other than Creation just as other Materialist scientists do by relying upon contradictions and false concepts. As a concept, "imaginary time" is tantamount to zero or non-existence—like the imaginary number of people in a room or the imaginary number of cars on a road. Stephen Hawking also tries to advance different explanations for the Big Bang other than Creation just as other Materialist scientists do by relying upon contradictions and false concepts.

Here Hawking is just playing with words. He claims that equations are right when they are related to an imaginary time but in fact this has no meaning. The mathematician Sir Herbert Dingle refers to the possibility of faking imaginary things as real in math as:

In the language of mathematics we can tell lies as well as truths, and within the scope of mathematics itself there is no possible way of telling one from the other. We can distinguish them only by experience or by reasoning outside the mathematics, applied to the possible relation between the mathematical solution and its physical correlate.

To put it briefly, a mathematically imaginary or theoretical solution need not have a true or a real consequence. Using a property exclusive to mathematics, Hawking produces hypotheses that are unrelated to reality. But what reason could he have for doing this? It's easy to find the answer to that question in his own words. Hawking admits that he prefers alternative universe models to the Big Bang because the latter "hints at divine

creation", which such models are designed to oppose.

What all this shows is that alternative models to the Big Bang such as 'Steady-State', the 'Open and Close Universe Model', and 'Quantum Universe Models' in fact spring from the philosophical prejudices of materialists. Scientific discoveries have demonstrated the reality of the Big Bang and can even explain "existence from nothingness". And this is very strong evidence that the universe is created by Allah, a point that materialists utterly reject.

An example of this opposition to the Big Bang is to be found in an essay by John Maddox, the editor of Nature (a materialist magazine), that appeared in 1989. In "Down with the Big Bang", Maddox declares the Big Bang to be philosophically unacceptable because it helps theologians by providing them with strong support for their ideas. The author also predicted that the Big Bang would be disproved and that support for it would disappear within a decade. Maddox can only have been even more discomfited by the subsequent

discoveries during the next ten years that have provided further evidence of the existence of the Big Bang. Some materialists do act with more common sense on this subject. The British Materialist H. P. Lipson accepts the truth of creation, albeit "unpleasantly", when he says:

If living matter is not, then caused by the interplay of atoms, natural forces, and radiation, how has it come into being?...I think, however, that we must...admit that the only acceptable explanation is creation. I know that this is anathema to physicists, as indeed it is to me, but we must not reject that we do not like if the experimental evidence supports it.

In conclusion, the truth disclosed by science is this: Matter and time have been brought into being by an independent possessor of immense power, by a Creator. Allah, the Possessor of almighty power, knowledge and intelligence, has created the universe we live in.

Allah says: *“And it is We Who have constructed the heaven with might, and verily, it is We Who*

are steadily expanding it”. (Qur'an, 51:47) “Do not the Unbelievers see that the heavens and the earth were joined together (as one unit of Creation) before We clove them asunder? (Big Bang) We made from water every living thing. Will they not then believe?”(Qur'an;21:30), “Moreover He Comprehended in His design the sky and it had been (as) smoke: He said to it and to the earth: "Come ye together willingly or unwillingly. "They said: "We do come (together) in willing obedience.”(Qur'an;41:11);“Who hath created and further given order and proportion” (Qur'an;87:2).

Random Universe:

A second atheist dogma rendered invalid in the 20th century by discoveries in astronomy is the idea of a 'Random Universe'. The view that the matter in the universe, the heavenly bodies and the laws that determine the relationships among them has no purpose but is the result of chance, has been dramatically discounted. For the first time since the 1970's, scientists have begun to recognize the fact that the whole physical balance of the universe is adjusted delicately in favor of

human life. With the advance of research, it has been discovered that the physical, chemical and biological laws of the universe, basic forces such as gravity and electro-magnetism, the structure of atoms and elements are all ordered exactly as they have to be for human life. Western scientists have called this extraordinary design the “Anthropic Principle”. That is, every aspect of the universe is designed with a view that makes the existence of intelligent life inevitable.

Anthropic Principle:

The basics of the “Anthropic Principle” may be summarized the as follows:

- The speed of the first expansion of the universe (the force of the Big Bang explosion) was exactly the velocity that it had to be. According to scientists’ calculations, if the expansion rate had differed from its actual value by more than one part in a billion billion, then the universe would either have recollapsed before it ever reached its present size or

else have splattered in every direction in a way never to unite again. To put it another way, even at the first moment of the universe's existence there was a fine calculation of the accuracy of a billion billionth. If the rate of expansion of universe would have been less or more than the size of a sand particle the universe would have not existed as is now.

- The four physical forces in the universe (gravitational force, weak nuclear force, strong nuclear force, and electromagnetic force) are all at the necessary levels for an ordered universe to emerge and for life to exist. Even the tiniest variations in these forces (for example, one in 10^{39} , or one in 10^{28} ; that is—crudely calculated—one in a billion billion billion billion), the universe would either be composed only of radiation or of no other element besides hydrogen.
- There are many other delicate adjustments that make the earth ideal for human life: the size of the sun, its distance from the earth,

the unique physical and chemical properties of water, the wavelength of the sun's rays, the way that the earth's atmosphere contains the gases necessary to allow respiration, or the Earth's magnetic field being ideally suited to human life.

This delicate balance is one of the most striking discoveries of modern astrophysics. The well known astronomer, Paul Davies, writes in the last paragraph of his book *The Cosmic Blueprint*, "The impression of Design is overwhelming". In an article in the journal *Nature*, the astrophysicist W. Press writes, "There is a grand design in the Universe that favors the development of intelligent life." The interesting thing about this is that the majority of the scientists that have made these discoveries were of the materialist point of view and came to this conclusion unwillingly. They did not undertake their scientific investigations hoping to find a proof for God's existence. But most of them, if not all of them, despite their unwillingness, arrived at this conclusion as the only explanation for the extraordinary design of the universe.

In his book, *The Symbiotic Universe* the American astronomer, George Greenstein, acknowledges this fact: How could this possibly have come to pass [that the laws of physics conform themselves to life]? ...As we survey all the evidence, the thought insistently arises that some supernatural agency—or, rather Agency—must be involved. Is it possible that suddenly, without intending to, we have stumbled upon scientific proof of the existence of a Supreme Being? Was it God who stepped in and so providentially crafted the cosmos for our benefit?

By beginning his question with “Is it possible”, Greenstein, an atheist, tries to ignore that plain fact that has confronted him. But many scientists who have approached the question without prejudice acknowledge that the universe has been created especially for human life. Materialism is now being viewed as an erroneous belief outside the realm of science. The American geneticist, Robert Griffiths, acknowledges this fact when he says, “If we need an atheist for a debate, I go to the philosophy department. The physics department isn’t much use.”

In his book *Nature's Destiny: How the Laws of Biology Reveal Purpose in the Universe*, which examines how physical, chemical and biological laws are amazingly calculated in an "ideal" way with a view to the requirements of human life, the well-known molecular biologist, Michael Denton writes: The new picture that has emerged in twentieth-century astronomy presents a dramatic challenge to the presumption which has been prevalent within scientific circles during most of the past four centuries: that life is a peripheral and purely contingent phenomenon in the cosmic scheme.

In short, the idea of a 'Random Universe', perhaps atheism's most basic pillar, has been proved invalid. Scientists now openly speak of the collapse of materialism. The supposition whose falsity God reveals in the Qur'an: "We did not create heaven and earth and everything between them to no purpose. That is the opinion of those who disbelieve..." (Qur'an; 38: 27) was shown to be invalid by science in the 1970's.

Chapter-3: Quantum Entanglement

The God Effect!

Mysteries of Quantum Physics lead to God:

“To God belongs the Mystery of the heavens and the earth. And the Decision of the Hour (of Judgment) is as the twinkling of an eye, or even quicker: for God hath power over all things.”
(Qur'an; 16:77).

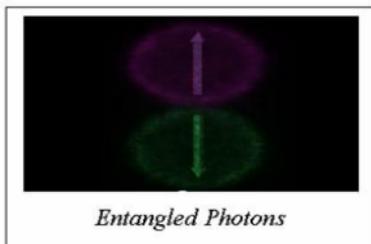
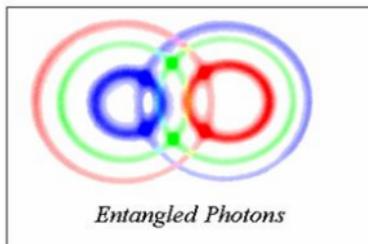
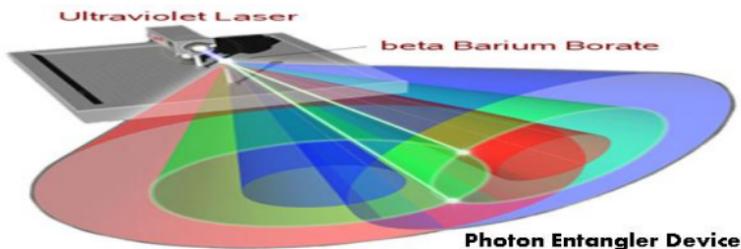
If two electrons are created together, they are forever entangled, regardless of the distance between the two electrons; a change in quantum spin in one electron will immediately cause the other electron to change spin as well.



Experiment depiction of 2 entangled particles [orange colored at over 140 Km apart] on Islands. Change at 'La Palma' Island [Green color] instantaneous affects 2nd Entangled particle 140 Km away at Tenerife Island, 'orange' turned to 'green'.

The part where you jiggle an electron on one side of the universe and an invisible force traverses millions of light years and smacks another electron into wiggling instantaneously, which is about a million years faster than is technically possible without time travel. In theory, you could separate two electrons by as much space as you wanted (say, the breadth of the universe), and they are still linked in such a way that actions taken on one would affect the other instantaneously. Meaning information is being transmitted at speeds faster than light. Meaning, if you want to really go nuts, time travel. And though the party pooping scientists have been busy coming up with limitations on the kind of information that could be transmitted, no one has yet been able to disprove the theory that there is an invisible force in the universe capable of affecting matter millions of light-years away instantly. So at Big Bang there was a point in the past in which every atom in the universe was condensed into a singularity. Which means everything is quantumly entangled. Some scientists have even gone so far as to claim that quantum entanglement shows that there is no

such thing as space, and that everything in the universe is still touching.



Here is an other explanation: When a photon (photon is a force carrier particle, usually polarized laser light) passes through matter, it will be absorbed by an electron. Eventually, and spontaneously, the electron will return to its ground state by emitting the photon. Certain crystal structures increase the likelihood that the photon will split into two photons, both of them with longer wavelengths than the original. Keep in mind that a longer wavelength means a lower frequency, and thus less energy. The total energy

of the two photons must equal the energy of the photon originally fired from the laser (conservation of energy). When the original photon splits into two photons, the resulting photon pair is considered entangled.

The process of using certain crystals to split incoming photons into pairs of photons is called parametric down-conversion. Normally the photons exit the crystal such that one is aligned in a horizontally polarized light cone, the other aligned vertically. By adjusting the experiment, the horizontal and vertical light cones can be made to overlap. Even though the polarization of the individual photons is unknown, the nature of quantum mechanics predicts they differ. To illustrate, if an entangled photon meets a vertical polarizing filter, the photon may or may not pass through. If it does, then its entangled partner will not because the instant that the first photon's polarization is known, the second photon's polarization will be the exact opposite. It is this instant communication between the entangled photons to indicate each other's polarization that lies at the heart of quantum entanglement. This is

the "spooky action at a distance" that Einstein believed was theoretically implausible.

Quantum events obey the laws of quantum theory, which governs the behaviour of minute objects like atoms and subatomic particles, including photons of light. By contrast with the laws of "classical" physics (which apply to the relatively large objects of the everyday world), quantum physics often exhibits behaviour that seems impossible. The connections that persist between distant but entangled particles are "one of the deep mysteries of quantum mechanics. 'These connections are a fact of nature proven by experiments, but to try to explain them philosophically is very difficult. Albert Einstein sneered at the very possibility of such a thing, calling it "spooky action at a distance." Scientists still (somewhat shamefacedly) speak of the "magic" of "quantum weirdness." And yet all experiments in recent years have shown that Einstein was wrong and that action at a distance is real.

In the early 1930s, Einstein had problems with the whole of quantum physics, which is ironic given

that it was partially based on his Nobel Prize winning paper on the photoelectric effect. What he didn't like was the way quantum particles don't have fixed values for their properties until they are observed. Why? Einstein couldn't relate to a universe where probability ruled! That's why he famously said that "Der Herrgott würfelt nicht!" or "The Lord doesn't play dice!" Einstein believed that underneath these mathematical probabilities were fixed hidden realities that we just couldn't see. That was why he, Podolsky and Rosen dreamed up the idea of what we now call "Quantum Entanglement" in 1935. It was to show that either quantum theory was incomplete, because it said there was no hidden information, or it was possible to instantly influence something at a distance. As that seemed incredible, he thought it showed that quantum theory was incorrect the way it had been presented with probabilistic mathematics. Quantum entanglement is at the heart of the Einstein-Podolsky-Rosen (EPR) Paradox developed in 1935.

It did take a long time to prove that Quantum Entanglement truly existed. It wasn't until the

1980s that it was clearly demonstrated. But it has been shown without doubt that this is the case. In 1982, at the university of Paris, a research team led by physicist Alain Aspect performed what may turn out to be one of the most important experiments of the 20th century. Aspect and his team discovered that: under certain circumstances subatomic particles such as electrons are able to instantaneously communicate with each other regardless of the distance separating them. The problem with this discovery is that it violates Einstein's long-held tenet that no communication can travel faster than the speed of light.

In 1935 a famous paper by Albert Einstein, Boris Podolsky and Nathan Rosen challenged the quantum theory prediction that entangled particles could remain instantly in touch with each other. One of their objections was based on the speed limit imposed by Einstein's Special Theory of Relativity: nothing can travel faster than the speed of light. Einstein and his colleagues preferred a more intuitive explanation of the simultaneous correlation between entangled particles, based on

the idea that the match between them is ordained by their identical antecedents. The behaviour of each particle, they argued, is the product of hidden "local" factors, not by spooky long-distance effects. But again and again in recent years, increasingly sensitive experiments have decisively proved that Einstein's explanation was wrong and quantum theory is correct.

Since the 1970's, physicists have been testing a prediction of quantum theory that "entangled" particles continue to communicate with each other instantaneously even when very far apart. Entangled particles are identical entities that share common origins and properties, and remain in instantaneous touch with each other, no matter how wide the gap between them. Past experiments on entangled particles were carried out over distances of 100 yards or less. By showing that the link between two entangled particles survives even when they are seven miles apart, Dr. Gisin set a dramatic distance record.

The twin-photon experiment by Dr. Nicolas Gisin of the University of Geneva and his colleagues in

June 1997 was the most spectacular demonstration yet of the mysterious long-range connections that exist between quanta events, connections created from nothing at all, which in theory can reach instantaneously from one end of the universe to the other.

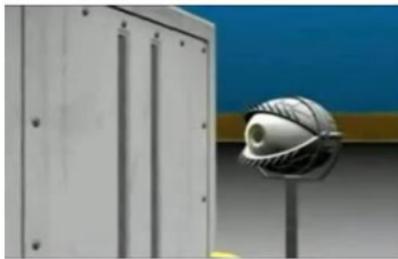
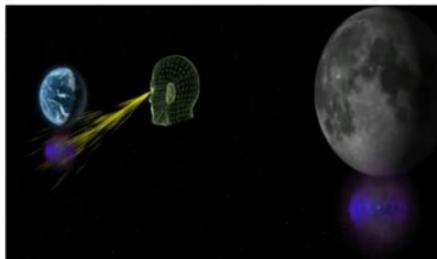
In essence, Dr. Gisin sent pairs of photons in opposite directions to villages north and south of Geneva along optical fibers of the kind used to transmit telephone calls. Reaching the ends of these fibers, the two photons were forced to make random choices between alternative, equally possible pathways. Since there was no way for the photons to communicate with each other, "classical" physics would predict that their independent choices would bear no relationship to each other. But when the paths of the two photons were properly adjusted and the results compared, the independent decisions by the paired photons always matched, even though there was no physical way for them to communicate with each other. In principle, it should make no difference whether the correlation between twin particles occurs when they are separated by a few meters

or by the entire universe. This research is interesting not only from a scientific and philosophical point of view, but because of a very practical consequence: possible completely secure code could be created.

The Measurement or Observation:

Effects on Behavior of Entangled Particles:

One of the weird aspects of quantum mechanics is that something can simultaneously exist and not exist; if a particle is capable of moving along several different paths, or existing in several different states, the 'Uncertainty Principle of Quantum Mechanics' allows it to travel along all paths and exist in all possible states simultaneously. However, if the particle happens to be measured by some means, [observation or instrumental measurement] its path or state is no longer uncertain. The simple act of measurement instantly forces it into just one path or state. Physicists call this a "collapse of the wave function."



The Entangled Particles are self-aware of Observation; it changes its behavior from Wave function to Particle function also called 'collapse of wave' function.

The amazing thing is that if just one particle in an entangled pair is measured, the wave function of both particles collapses into a definite state that is the same for both partners, even separated by great distances. The 'double slit' and 'single slit' experiments of electrons behaving as wave and particle respectively but once electron is observed it knows being observed and behaves as single shot electron not as wave. This is strange phenomena. The particle knows when it is being watched and when it was not. This shows the simple means of intelligence by reacting to visual stimuli. In the STI [Self thinking Interface] Device created by Physicist Roger R. Vogelsan in the early 70' proved that there is ultimate knowledge in the FORCE which connects to all freed electrons. This FORCE knows everything its Omniscient.

Among several proposed explanations of all this is the "many worlds" hypothesis: the notion that for every possible pathway or state open to a particle, there is a separate universe. For each of 10 possible pathways a quantum particle might follow, for example, there would exist a separate universe.

Since the 1970's, Dr. John F. Clauser of the University of California at Berkeley, Dr. Alain Aspect at the Institute des Optics in Orsay, France, and others have been experimenting with pairs of entangled particles. One way to create a pair of entangled twins is to start with a single photon of ultraviolet radiation and pass it through a peculiar artificial mineral called a "down-conversion crystal." In the Swiss experiment, the crystal consisted of potassium niobate. The crystal splits the photon in two, producing two new photons that continue on in somewhat different directions, and whose combined energy equals the energy of their parent photon. The special quality of such pairs, as shown both by theory and experiment, is that they are entangled quantum mechanically. This means that if the polarization

or energy or timing of one of the particles is measured, its indefinite state is destroyed and it falls into a definite state. The astonishing consequence of this is that the particle's distant twin experiences exactly the same metamorphosis at the same moment, even though there is no physical link or signal between the two twins.

In Dr. Gisin's experiment, as in earlier ones, no signal of any kind was transmitted between the photons, but despite this, one of the photons "knew" what happened to its distant twin, and mimicked the twin's response. This response took less than one ten-thousandth of the time a light beam would have needed to carry the news from one photon to the other at a speed of 186,282 miles per second. (In fact, the correlation between the two particles was presumably instantaneous. The Swiss experiment merely set an upper limit on the time required for the response as about three ten-billionths of a second.). Dr. Gisin's experiment made use of a system of paired interferometers developed by Dr. James D. Franson of Johns Hopkins University, who is also a leading investigator of quantum effects.

"You start with an ultraviolet photon and split it into two photons. One goes one way and the other goes another way, both to identical interferometers. Entering its own interferometer, each photon must make a random decision as to whether it will travel a long pathway through the device or a short one. Then you look for a correlation between the pathways taken by the photons in their respective interferometers." If the timing between the photons is exactly adjusted, each twin seems to know what the other is doing and matches its choice of pathway to coincide with that of its distant partner. Dr. Franson said of the correlation demonstrated over a seven-mile course by the Swiss experiment, "It's pretty amazing."

Faster than Speed of Light:

It is assumed that the numerical correlation between two particles different from information. Quantum theory is confirmed by experiments, and so is relativity theory, which prevents us from sending messages faster than light. It is unknown

that there's any intuitive explanation of what that means.

Tunneling:

Another deep quantum mystery for which physicists have no answer has to do with "tunneling" -- the bizarre ability of particles to sometimes penetrate impenetrable barriers. This effect is not only well demonstrated; it is the basis of tunnel diodes and similar devices vital to modern electronic systems. Tunnelling is based on the fact that quantum theory is statistical in nature and deals with probabilities rather than specific predictions; there is no way to know in advance when a single radioactive atom will decay, for example. The probabilistic nature of quantum events means that if a stream of particles encounters an obstacle, most of the particles will be stopped in their tracks but a few, conveyed by probability alone, will magically appear on the other side of the barrier. The process is called "tunnelling," although the word in itself explains nothing. Dr. Chiao's group at Berkeley, Dr. Aephraim M. Steinberg at the University of

Toronto and others are investigating the strange properties of tunnelling, which was one of the subjects explored by scientists attending the Nobel Symposium on quantum physics in Sweden. "We find," Dr. Chiao said, "that a barrier placed in the path of a tunnelling particle does not slow it down. In fact, we detect particles on the other side of the barrier that have made the trip in less time than it would take the particle to traverse an equal distance without a barrier -- in other words, the tunnelling speed apparently greatly exceeds the speed of light. Moreover, if you increase the thickness of the barrier the tunneling speed increases, as high as you please. "This is another great mystery of quantum mechanics." Most physicists and engineers set aside the contemplation of quantum mysteries and are content to exploit the innumerable applications quantum physics has found in technology, including lasers, solid-state electronics and much more. But the sense of mystery has never been entirely suppressed.

The Cosmic Code:

The late Rockefeller University physicist Heinz Pagels, like many other theorists, believed that quantum physics is a kind of code that interconnects everything in the universe, including the physical basis of life itself. In his book "The Cosmic Code," Dr. Pagels, an ardent mountain climber, wrote:

"I often dream about falling. Such dreams are commonplace to the ambitious or those who climb mountains. Lately I dreamed I was clutching at the face of a rock, but it would not hold. Gravel gave way. I grasped for a shrub, but it pulled loose, and in cold terror I fell into the abyss. Suddenly I realized that my fall was relative; there was no bottom and no end. A feeling of pleasure overcame me. I realized that what I embody, the principle of life, cannot be destroyed. It is written into the cosmic code, the order of the universe. As I continued to fall in the dark void, embraced by the vault of the heavens, I sang to the beauty of the

stars and made my peace with the darkness." Dr. Pagels was killed in a climbing accident in 1988.

Quantum Entanglement or the God Effect!

One of the main scientific goals of the world's largest atom smasher, costing some 9 billion dollars, is to prove the existence of the Higgs boson or God particle, which makes the universe possible by giving mass to everything including all of us and the objects we can touch! Quantum Entanglement (QE) or the God Effect is the working mechanism of the Higgs boson or the God particle, because it's so fundamental. Quantum Entanglement is at the heart of understanding how significant events across the universe operate at the macro- and micro- level in split-second synchronicity despite considerable distance between them. Quantum Entanglement suggests that information is exchanged faster between Quantum Entangled particles than the speed of light, which was deemed impossible per Einstein's special theory of relativity proposed in 1905.

Quantum Entanglement: Applications

A 'Type' of "The God Connection"!

When God created the universe and the laws of physics, did He leave a 'connection' with all particles and forces within it? It seems there are themes and 'designs' in science that seem to repeat and recur in nature. Scientists and theologians have long wondered about the 'dualism' in particles and forces in the universe, nature, and morality. For example, matter and antimatter, positive and negative charges, male, female, good and evil, etc. When atomic theory became the dominate theory of matter around the turn of the last century, the model of Neils Bohr, of hard round particles orbiting the atomic nucleus, was compared to the planetary system of our sun. The same theme is recurrent in galactic structure and the orbits of stars, star clusters, and gasses. It seemed that a basic structure was promulgated from the very smallest objects to the very largest.

We have since seen that the atom is much more complicated and that the objects orbiting the nucleus are not 'hard' and definite, but are both

particle and wave in their structure. The nucleus itself is very complex and the once hard objects that we call neutrons, and protons are actually made up of 'quarks' and other nebulous subatomic particles.

In religion we have a belief that in order to communicate with God, a person enters into a state of consciousness that we call prayer. Through prayer, a spiritual connection is made to God and He hears our thoughts and we receive assurance that He acknowledges our wishes. Is there a similar "type" in the physical world for that connection? *"It was We who created man and We know what dark suggestions his soul makes to him: for We are nearer to him than (his) jugular vein."*(Qur'an;50:16)

The idea in quantum entanglement is that every particle in a particle-antiparticle pair is in instant communication with the other particle, regardless of how far apart they are. It is a phenomenon that was experimentally proven, just recently, by scientists in Geneva Switzerland, in 2008. In this experiment a single particle - antiparticle pair was

sent streaming away from the source in opposite directions, and they were detected when they were about 20 miles away from each other. The 'entanglement' phenomenon was proven when a 'detection' of one particle instantly produced an identical change in the other particle. This 'instantaneous' transmission of information defies Einstein's theory of relativity and the speed of light. A calculation was made that determined that the speed of this experiment was at least 10,000 times the speed of light and perhaps was instantaneous.

The size of the particles of this discussion are at the subatomic level, far below 'microscope' level. Some scientists think that at this level, there is a universal 'connection' that transcends space/time and allows all particles to be 'in contact' with every other particle in the universe in a way that we have yet to understand. Below the 'quantum' or Planck level, the definitions of space and time become obscure and tend to blur. If all particles are somehow connected below the Planck level, it would seem to say that we all have a universal connection to each other and perhaps that is the

medium through which prayer is channelled? That much is pure speculation, but if God created all the physical laws and the universe in such a way that He is never out of touch both spiritually and physically, and is omnipresent everywhere at once, it confirms what Christians, Jews & Muslims have always said about His presence and the ease with which we are in touch with Him. It means that He knows every thought, every event, and everything that happens in the universe. It also says that no matter how far you travel, or how much you transgress His will, He is always near.

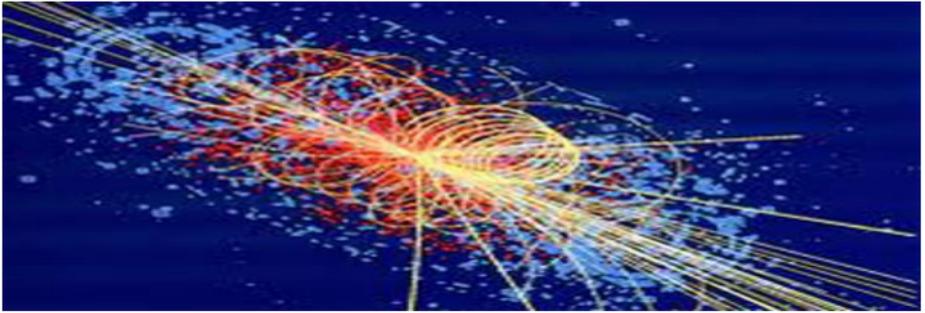
Application in Highly Secure Communications:

There are some real and amazing applications of Quantum Entanglement in our world. It can be used to produce unbreakable encryption. If we send each half of a set of entangled pairs to either end of a communications link, then the randomly generated but linked properties can be used as a key to encrypt information. If anyone intercepts the information it will break the entanglement, and the communication can be stopped before the

eavesdropper picks up any data. Teleportation, Star Trek style is an other aspect being explored.

Quantum Pseudo-Telepathy: Telepathy is the transmission of information from one person to another without using any of our known sensory channels or physical interaction, it is experienced between individuals, love one's at far off distances. The phenomenon of quantum pseudo-telepathy is mostly used as a powerful and explicit thought experiment of the non-local characteristics of quantum mechanics. Yet, the effect is real and subject to experimental verification, as demonstrated by the experimental confirmation of the violation of the Bell inequalities. The 2nd Caliph Omar is reported to have communicated with the commander of Islamic Army in battlefield hundreds of miles away. May be entanglement phenomena have some thing to explain.

Chapter- 4: Holographic Universe



Since traveling faster than the speed of light is tantamount to breaking the time barrier, this daunting prospect has caused some physicists to try to come up with elaborate ways to explain away Alain Aspect's findings. It has also inspired others to offer even more radical explanations including that of the holographic universe! The implications of a holographic universe are truly mind boggling... Aspect's findings imply that objective reality does not exist, that despite its apparent solidity the universe is at heart a phantasm, a gigantic and splendidly detailed hologram. To understand why a number of physicists including David Bohm made this startling assertion, one must first understand a little about holograms.

Hologram:

A hologram is a three-dimensional photograph made with the aid of a laser. To make a hologram, the object to be photographed is first bathed in the light of a laser beam. Then a second laser beam is bounced off the reflected light of the first and the resulting interference pattern -- the area where the two laser beams superimpose -- is captured on film. When the film is developed, it looks like a meaningless swirl of light and dark lines. But as soon as the developed film is illuminated by another laser beam, a three-dimensional image of the original object appears! The three-dimensionality of such images is not the only remarkable characteristic of holograms. If a hologram of a rose is cut in half and then illuminated by a laser, each half is still found to contain the entire image of the rose. Indeed, even if the halves are divided again, each snippet of film is always found to contain a smaller but intact version of the original image. Unlike normal photographs, every part of a hologram contains all the information possessed by the whole! The

"whole in every part" nature of a hologram provides us with an entirely new way of understanding organization and order. For most of its history, Western science has laboured under the bias that the best way to understand a physical phenomenon, whether a frog or an atom, is to dissect it and study its respective parts. A hologram teaches us that some things in the universe may not lend themselves to this approach. If we try to take apart some thing constructed holographically, we will not get the pieces of which it is made, we will only get smaller wholes.

Extensions of the Same Source: This insight suggested to some scientists including David Bohm another way of understanding Aspect's discovery. Bohm believed the reason subatomic particles are able to remain in contact with one another regardless of the distance separating them is not because they are sending some sort of mysterious signal back and forth, but because their separateness is an illusion. Bohm suggested that at some deeper level of reality such particles

are not individual entities, but are actually extensions of the same fundamental something!

Beyond Cause and Effect:

Quantum Entanglement seems to throw out the whole notion of cause and effect, as we know it! It is possible for a particle to interact with another particle in such a way that the quantum states of the two particles form a single entangled state. The definition of an entangled state is that it is not entirely independent of the other's state. Its state is dependent on another's state in some way. Given this dependency, it is a mistake to consider either state in isolation from the other. Rather we should combine the states and treat the result as a single, entangled state.

Space and Time:

When pairs of particles are generated by the decay of other particles, naturally or through induced collision such as at CERN or Fermi Labs, these pairs may be termed "entangled", in that such pairs often necessarily have linked and

opposite qualities, ie of spin or charge. The assumption that measurement in effect "creates" the state of the measured quality goes back to the arguments of, among others: Schrödinger and Einstein, Podolsky and Rosen concerning Heisenberg's uncertainty principle and its relation to observation. Quantum Entanglement does underline the fact that quantum particles really do only have a range of probabilities on the values of their properties rather than fixed values. And while it seems to contradict Einstein's theory of special relativity, which says nothing can travel faster than light, it's increasingly likely that entanglement challenges our ideas of what space and time really mean!

Chapter-5: Attributes of God & Science

The Attributes, Words and Signs and Mercies of Allah are manifest in His Creations, and can never be fully set out in human language, however extended human means may imagined to be. However all that is mentioned about Allah's attributes, whether briefly or in detail and affirmatively or negatively, based on Qur'an, and the traditions of Prophet Muhammad (peace be upon him) are final some are also mentioned in Bible. Allah has most perfect attributes; Allah can be called by any name, signifying the attributes of perfection, suitable to Him. Traditionally in Islamic traditions 99 Names are attributed to Allah, some are also mentioned in Bible. Some Islamic attributes of God are: The Creator (Al-Khaliq), The Master, The Lord of Universe (Rab-ul-Ala'min),), The Owner of All Sovereignty (Malik-al-Mulk), The Timeless (As-Sabur), The One, The Unique, Manifestation of Unity (Al-Wahid), The All Knowing, The Omniscient (Al-`Alim), The All Seeing (Al-Basir), The All Aware (Al-Khabir), The

King, The Sovereign (Al-Malik), The Almighty, The Self Sufficient (Al-Aziz), The Powerful, The Rightful (Al-Bari'), The Fashioner of Forms (Al-Musawwir), The Majestic (Al-Jalil), The Answerer (Al-Mujib), The Strong (Al-Qawaie), The Producer, Originator, and Initiator of All (Al-Mubdi, Al Badi'), The Magnificent (Al-Majid), The One, the All Inclusive, The Indivisible (Al-Ahad), The Self Sufficient, The Everlasting (As-Samad), The All Beneficent (Ar-Rahman), The Most Merciful (Ar-Rahim), The Lord of Majesty and Generosity (Dhu-al-Jalali wa-al-Ikram), The Incomparable, The Originator (Al-Badi). Some of His attributes are explained briefly:-

The Creator:

He is the Supreme Creator:" He is the Originator of the heavens and the earth. (Qur'an;6:101). Allah has no equal because His Attributes are perfect: "There is nothing whatsoever like unto Him. He is the All-hearing, the All-seeing" (Qur'an;42:11); "no slumber or sleep seizes Him" (Qur'an;2:255), because His life is perfect and eternal. Bible also mentions: "Have you not

known? Have you not heard? The LORD is the everlasting God, the Creator of the ends of the earth. He does not faint or grow weary, his understanding is Unsearchable.”(Isaiah;40:28).

Uncreated:

Allah knows, but not as human knows; He has power, but not as human have power. He is a thing, but unlike other things; by saying "thing," it is intended merely to affirm His reality. He has neither body nor substance, neither accidental property nor limit, neither opposite nor like nor similitude. A human being require some material to make some thing i.e. a carpenter requires wood, nails tools and other material to make a table. God Most High creates things out of nothing and He has knowledge of them in pre-eternity, before their creation.

The Lord:

Cherisher & Sustainer (Lord) of All the Worlds:

Allah is The Sustainer’ (*Rabb*) of all the worlds. “Praise be to Allah the Cherisher and Sustainer

(*Rabb al- a'lamen*) of the Worlds”(Qur'an;1:2); “Then praise be to Allah, Lord of the heavens and Lords of the earth, the Lord of the Worlds.”(Qur'an;45:36); “Cast thy burden upon the LORD, and he shall sustain thee: he shall never suffer the righteous to be moved.”(Psalms;55:22).

Omnipotent, the Wise:

He is Omnipotent: “He is the Supreme Authority over His servants; and He is the Wise, the Aware.”(Qur'an;6:18). Allah is not living with His creatures on earth, but He is closer to human than their jugular vein: “It was We who created man and We know what dark suggestions his soul makes to him: for We are nearer to him than (his) jugular vein.”(Qur'an;50:16). It implies that Allah knows more truly the innermost state of human feeling and consciousness than does their own self; “Hast thou not seen that Allah knows all that is in the heavens and all that is in the earth? There is no secret conference of three but He is their fourth, nor of five but He is their sixth, nor of less than that or more but He is with them Wheresoever they may be;...”(Qur'an;58:7);

“Whither shall I go from thy spirit? or whither shall I flee from thy presence?”(Psalms;139:7).

Omniscient:

Allah possess absolute & infinite knowledge: “He Alone has the keys of the unseen treasures, of which no one knows except Him. He knows whatever is in the land and in the sea; there is not a single leaf that falls without His knowledge, there is neither a grain in the darkness of the earth nor anything fresh or dry which has not been recorded in a Clear Book.”(Qur’an;6:59); "Allah alone has the knowledge of the Hour, sends down rain, and knows what is in the wombs (a blessing or a curse). No soul knows what it shall earn tomorrow, and no soul knows in what land it shall die. Surely, Allah is All-knowing, All-aware" (Qur’an;31:34). The Qur'an points to the rich sources of knowledge in the whole universe. “..The knowledge thereof is with my Lord in a Record. My Lord never errs nor forgets”(Qur’an;20:52); “ For a man's ways are before the eyes of the LORD, and he watches all his paths.”(Proverbs;5:21).

The First and the Last:

The Evident and The Immanent: According to Qur'an: "He is the First and the Last the Evident and the Immanent: and He has full knowledge of all things. "(Qur'an;57:3); "They shall perish, but thou shalt endure: yea, all of them shall wax old like a garment; as a vesture shalt thou change them, and they shall be changed: But thou art the same, and thy years shall have no end."(Psalms;102:26-27). God is Evident in so far as there is ample evidence of His existence and providence all around the universe. On the other hand, God is Hidden in so far as human intellect cannot grasp His essence nor can He be seen in the present world. "I am the Alpha and the Omega," says the Lord God, who is and who was and who is to come, the Almighty."(RSV;Revelation;1:8). The Bible also mentions, God as Invisible (Job;23:8-9) and Unsearchable (Job;11:7; 37:23;Psalms; 145:3; Isaiah; 40:28).

God is Not Similar to His Creatures:

“There is none like unto Him”(Qur’an;112:4);
“..there is none like me in all the earth.”(Exodus;9:14).

The Merciful:

The Mercy of Allah is the one of the grandest themes of the Qur’an. To contemplate these boundless gifts of God. “When those who believe in Our revelations come to you, say: "Peace be upon you. Your Lord has decreed mercy upon Himself. If anyone among you commits evil because of ignorance and thereafter repents and mends his ways; you will find Allah Forgiving, Merciful.”(Qur’an;6:54 & 85:14). God’s attribute of Mercy is also highlighted in Bible at Exodus;34:6-7 and many other places: “The earth, O LORD, is full of thy mercy: teach me thy statutes.”(Psalms;119:64); “Therefore turn thou to thy God: keep mercy and judgment, and wait on thy God continually.”(Hosea;12:6); “For a small moment have I forsaken thee; but with great mercies will I gather thee.”(Isaiah;54:7); “But God,

who is rich in mercy, for his great love wherewith he loved us,”(Ephesians;2:4).

Justice:

He helps all with justices and fairness: “The fact is that Allah is your Protector and He is the best of all helpers.”(Qur’an;3:150); “Rest assured that Allah does not wrong anyone even by an atom's weight. If someone does a good deed He increases it many fold and also gives an extra great reward on His own.”(Qur’an;4:40). He is Sustainer of humanity whether believers or non believers and all other creatures: “We bestowed on all - these as well those - out of the bounties of your Lord; the bounties of your Sustainer are not confined.”(Qur’an;17:20). He answers the prayers: “Call on Me; I will answer your (Prayer)...!”(Qur’an;40.60). It is mentioned in Bible: “Touching the Almighty, we cannot find him out: he is excellent in power, and in judgment, and in plenty of justice: he will not afflict.”(Job;37:23). On the Day of Judgment He will judge among His people. He is the Doer of what He wills. True knowledge based on clear proof and indisputable

evidence acquired by experience or experiment or by both.

He Does What He Wills:

To Him belongs the Kingdom of the Heavens and the Earth, He does what ever He Wills:“ Whenever He intends a thing, He needs only to say: "Be," and it is.”(Qur’an;36:82); "There is nothing whatever like unto Him, He is the All-hearing, the All-seeing. To Him belongs the keys of the Heavens and the Earth. He enlarges and restricts provisions to whom He wills. Surely He has knowledge of everything" (Qur’an;42:11-12); "He creates what He pleases. He gives, to whom He wills, females, and He gives, to whom He wills, males, or He couples them, males and females; and He makes whom He wills barren. Surely, He is the Knowing, the Powerful"(Qur’an;42:49-50). Despite being All Powerful, God does not wrong the mankind: “Lo! Allah wrongs not mankind in aught; but mankind wrong themselves.” (Qur’an;10:44).

Subtle, Unfathomable, The All Aware:

Allah is *Latif*, fine, subtle, so fine and subtle as to be invisible to the physical eye; so fine as to be imperceptible to the senses; figuratively, so pure as to be above the mental or spiritual vision of ordinary men but at the same time He is aware of all things. It is beyond the capability of human eye to see God In this world, Allah says: "Vision cannot perceive Him, but He perceives all vision. He is the Subtle, (*Latif*, Incomprehensible), the All-aware" (Qur'an;6:103). Bible also confirms that God can not be seen (John;1:18, 1Timothy;6:16, Exodus;33:20). God Most High will be seen in the Hereafter, visible to the believers in Paradise with their corporeal vision as mentioned in Qur'an: "Upon that day (Day of Judgment) some faces shall be radiant, gazing upon their Lord"(Qur'an;75:22-23). "Behold, I go forward, but he is not there; and backward, but I cannot perceive him; on the left hand I seek him, but I cannot behold him; I turn to the right hand, but I cannot see him."(Job;23:8-9).

Belief in God, His names, and His attributes instills in the individual the love and glorification of God that result in obeying God's instructions and avoiding His prohibitions. These are the means of achieving ultimate happiness in this life and the hereafter for both the individual and the society: "Whoever, male or female, does righteous deed, while believing, We shall assuredly grant him a goodly life, and We shall reward them according to the best of their deeds" (Qur'an;16:97).

Chapter-6: Scientific Proofs of God

Through Four Common Attributes:

While keeping metaphysics and spirituality aside, the four primary physical attributes are being considered here that may help to describe God to any believer or disbeliever in scientific terms: 1)Eternal, independent of time, 2)Omnipresent, found everywhere, 3)Omnipotent, all powerful and 4)Omniscient, all knowing. If these primary attributes are found in one Power and are proved scientifically then that power is God.

Eternal:

Heisenberg came to the conclusion that quantum events cannot be predicted. All freed electrons behave as if they are being influenced by an outside variable or force, Uncertainty Principle. In *Signal Travels Farther & Faster than light* by Malcolm W.Browne, a force was found connecting two freed electrons and proved to be Eternal, was present within our time yet was not involved with the flow of our time. This Eternal force connects to

all freed electrons. Every particle that releases energy connects to this Eternal force.

Omnipresent:

Everything beyond our solar system that is visible is made of stars, which all release freed electrons, light, radiation etc. This shows that this force to also be Omnipresent everywhere in the universe.

Omnipotent:

In experiments by Russian scientists they found at that laser photons knew when a DNA molecule was added in to the vacuum.

[http://quantumbalancing.com/news/russian_dna.htm]

The photons/electrons collected around the DNA stand and began to change the order of the DNA, changing it to what is desired. After the DNA was removed and the laser turned off the excess photons remained in the position resembling the DNA for over 22 minutes. This simply proves that this force to be Omnipotent, all powerful. It is common observation that we see everything to be so complex, complex

environments, complex galaxies and the complexity of nature and life itself. If this force created everything from nothing, we know that energy cannot be created, shows this force to be Omnipotent. Visual evidence is seen in the distance of stars and galaxies across the universe.

According to the first law of thermodynamics energy cannot be created or destroyed. Then where did all the energy in this universe come from? Does it have something to do with this same force being timeless? The force was able to use freed electrons to manipulate DNA, showing what this force can do on a tiny scale. What can this force do to freed electrons on a large scale? Is the universe expanding from dark matter or this Eternal Force?

Since the universe is full of freed electrons, one can only imagine what this force could do if it used to work as one single entity. Possibly how the whole universe was created in six eons.

This data implies that all freed electrons in combination or as a collective to be: Omnipotent, all powerful. This is self evident from the size and distance of galaxies that can be seen across this universe.

Omniscient:

In the Double Slit experiment mentioned earlier, light a freed electron showed that it was observant of its surroundings. It knew when it was being watched and knew when it was not. It showed simple means of intelligence by reacting to visual stimuli. The first bit of evidence that showed this force to be, Omniscient. In the STI [Self thinking Interface] Device created by Physicst Roger R.Vogelsan in the early 70' proved that there is ultimate knowledge in the FORCE which connects to all freed electrons. This FORCE knows everything its Omniscient.

Hence science proves that God is real and His existence is scientifically proved, let's look at the summary:

- 1) **God is Eternal:** The twin-photon experiment by Dr. Nicholas Gisin verified by later experiments found photons, freed electrons to be connected to this Force. Nothing can go faster than light except this one Force.
- 2) **God is Omnipresent:** This force connects to all freed electrons in our universe. Freed electrons are created when matter is converted into energy. This force is everywhere even beyond our universe. This force is found to be everywhere in our universe's past, present & future which we call time as time does not exist to this force.
- 3) **God is Omnipotent:** All powerful. We observe galaxies at the furthest reaches of the universe. Not hot gas which first theorised but old galaxies. How can the light now be reaching us and show old galaxies at the furthest extents of the

universe? If light has a speed limit, then how did distant galaxies form long before the universe was said to have begun? This force again shows that it is Omnipotent and Timeless.

- 4) **God is Omniscient:** All knowing. Physicist Roger R. Vogelsang found with his STI Device that not only could this force read thoughts and knew all things in the past and future but have knowledge of every thing past, present and future.

God is Eternal, Omnipresent, Omnipotent and Omniscient, science proves it!

Chapter-7: God, Science & Universe

Scientific Facts in Qur'an on Universe

History records many miracles performed through Prophet Muhammad (peace be upon him) but Allah in His Divine wisdom provided Qur'an, the ever living sign (miracle) through Prophet Muhammad (peace be upon him), which any one can read by himself, to discover that Qur'an is the true word of Allah, the last book of guidance, light and wisdom for the humanity till eternity. Islam encourages reasoning, discussions and dialogue. The Qur'an provides reason and rationale for the purpose, creation and existence of universe. It is the living sign of God and truthfulness of His last messenger, Prophet Muhammad (peace be upon him). Allah says: "O mankind! Verily there hath come to you a convincing proof (Qur'an) from your Lord: for We have sent unto you a light (that is) manifest. Then those who believe in Allah and hold fast to Him soon will He admit them to Mercy and Grace from Him and guide them to Himself by

a straight Way.”(Qur’an;4:174-175). The Qur’an contains more than six thousand *ayaats* (‘Signs’), each verse (ayah), of Qur’an is a sign from the Lord, which speaks of the greatness of its originator. It is a historical fact that Prophet Muhammad (peace be upon him) was ‘Ummi’ i.e. unlettered (illiterate) (Qur’an;7:157). Revelation of Qur’an in Arabic, unmatched in its eloquence and beauty, through the mouth of un-learned (Isaiah;29:12) prophet is miraculous. The prophesy of Prophet Muhammad (peace be upon him) and Qur’an (word of God, i.e. ‘words in his mouth’) is mentioned in Bible at Deuteronomy; 18:18,19. The universal challenge of Qur’an to produce even one ayah (verse) like Qur’an (Qur’an;2:23) is yet to be answered. This is the only scripture in the world which is available to the humanity in its original revealed form and will continue to be as such because Allah has taken responsibility to guard it (Qur’an;15:9) . It is the only scripture which is memorized by thousands of Muslims of all ages, nationalities, categories and professions (doctors, engineers, scientists, clerics and common people) the world over from last

fourteen centuries, hence is transferred from generation to generation accurately. It is the most recited book in the world.

Qur'an is not a book of 'science', but a book of 'signs' (ayaats), there are more than thousand verses of Qur'an referring to various subjects of science, such as astronomy, physics, geography, geology, oceanology, biology, botany, zoology, medicine, physiology, embryology as well as general science, mostly un known to humanity at the time of its revelation, fourteen centuries ago. Some verses related with universe are mentioned here:

“Soon shall We show them OUR SIGNS in the UNIVERSE and in their OWN SELVES, until it becomes clear to them that this QUR'AN IS INDEED THE TRUTH. Is it not enough that your Lord is a witness over everything?”(Qur'an;41:53)

“Do not the Unbelievers see that the heavens and the earth were joined together (as one unit of Creation) before We clove them asunder? (Big

Bang) We made from water every living thing. Will they not then believe?"(Qur'an;21:30)

"Moreover He Comprehended in His design the sky and it had been (as) smoke: He said to it and to the earth: "Come ye together willingly or unwillingly. "They said: "We do come (together) in willing obedience."(Qur'an;41:11)

"Who hath created and further given order and proportion" (Qur'an;87:2).

"And it is We Who have constructed the heaven with might, and verily, it is We Who are steadily expanding it". (Qur'an, 51:47)

"That Day We will fold up heaven like folding up the pages of a book. As We originated the first creation so We will regenerate it. It is a promise binding on Us. That is what We will do." (Qur'an, 21:104)

"They do not measure Allah with His true measure. The whole earth will be a mere handful for Him on the Day of Rising the heavens folded up in His right hand. Glory be to Him! He is exalted above the partners they ascribe!" (Qur'an, 39:67)

“He Who created the seven heavens in layers. You will not find any discrepancy in the creation of the All-Merciful. Look again-do you see any gaps? Then look again and again. Your sight will return to you dazzled and exhausted!” (Qur'an, 67:3-4)

“Do you not see how He created seven heavens in layers, and placed the moon as a light in them and made the sun a blazing lamp?” (Qur'an, 71:15-16)

“No! I swear by the planets-that recede, that ride their course [and] hide themselves.” (Qur'an, 81:15-16)

“Your Lord is Allah, Who created the heavens and the earth in six eons and then settled Himself firmly on the Throne...” (Qur'an, 7:54). When a six-eons period of time is calculated according to the relativity of time, it equates to six trillion days. That is because universal time flows a million million times faster than time on Earth. Calculated in terms of years, 6 trillion days equates to approximately 16.427 billion years. This is within the estimated range for the age of the universe.

Black Holes: “And I swear by the stars' positions-and that is a mighty oath if you only knew”.

(Qur'an, 56:75-76), "When the stars are extinguished", (Qur'an, 77:8), "[I swear] by Heaven and the Tariq! And what will convey to you what the Tariq is? The Star Piercing [the darkness]!" (Qur'an, 86:1-3)

The Skies with 'Woven' Orbits: "By heaven furnished with paths;" (Quran; 51:7)

"Allah is He Who raised up the heavens without any support – you can see that – and then established Himself firmly on the Throne. He made the Sun and Moon subservient, each running for a specified term. He directs the whole affair. He makes the Signs clear so that hopefully you will be certain about the meeting with your Lord". (Quran; 13:2)

A Red Rose in The Sky: The Rosette Nebula: When the Heaven shall be cleft asunder, and become rose red, like stained leather. (Quran; 55:37)

The Sun Will Expire after Some Time: And the sun runs to a fixed resting place. That is the decree of the Almighty, the All-Knowing. (Quran; 36:38)

“It is We Who have created you. Why, then, do you not accept the truth? Have you ever considered that [seed] which you emit? Is it you who create it? Or are We the Creator?” (Qur'an, 56:57-59)

The complex process of pregnancy from conception till child birth, discovered recently is accurately narrated in Qur'an;23:13-14.

It is found that the Qur'anic information on science does not conflict with the established scientific facts. It may go against certain scientific hypothesis or theories, which are not based on facts as many a times, the science retracts its position.

The scientific facts mentioned in Qur'an have been discovered during last few centuries. But science has not advanced to a level where it can confirm every statement of the Qur'an referring to scientific information. According to Dr.Zakir Naik; suppose 80% of all that is mentioned in the Qur'an has been proved 100% correct, while for the remaining 20%, science makes no categorical statement, since

it has not advanced to a level, where it can either prove or disprove these statements. With the limited knowledge through science available today, one cannot say for sure whether even a single percentage or a single verse of the Qur'an from this 20% portion is wrong. Thus when 80% of the Qur'an is 100% correct and the remaining 20% is not disproved, logic says that even the 20% portion is correct. [The details of scientific facts mentioned in Qur'an have been deliberated upon in the book 'Qur'an and Science' by Dr.Zakir Naik & "The Bible, The Qur'an and Science" by Dr. Maurice Bucaille, a French doctor]. How an unlettered person brought up among the most backward desert Arabs, away from the centres of civilization and knowledge, could accurately provide the scientific information mostly discovered recently? It is God, the Creator alone Who could provide so accurate scientific information. Consequently as the scientific information mentioned in Qur'an is true then, by inference the other metaphysical

information mentioned in Qur'an (correspondingly also in Bible) like; existence of God, angles, eschatology (death, judgment, heaven, hell, and the final destiny of the soul and of humankind) must also be true. Humanity has much more to learn from Qur'an if they ponder over it (Qur'an;38:29).

Allah says: "This Book (Al-Qur'an) which We have sent down to you (O Muhammad) is highly blessed, so that they may ponder upon its verses and the men of understanding may learn a lesson from it."(Qur'an;4:82).

It's amazing; there is no doubt that Qur'an is a living miracle manifesting existence of The One Creator-Allah.

Conclusion:

Science is beginning to see the entire universe as a holographically interlinked network of energy and information.

"Science is not the enemy of humanity but one of the deepest expressions of the human desire to realize that vision of infinite knowledge," "Our capacity for fulfillment can come only through faith

and feelings. But our capacity for survival must come from reason and knowledge." Science, he warned, is not "as resilient as commerce, religion, or politics. It needs careful nurturing." If humankind ultimately abandons science, it would be "an error that might cost us our existence." [Pagels]

As Einstein said, "*Raffiniert ist der Herrgott, aber boshaft ist er nicht!*" or "The Lord is subtle, but he is not malicious!" And as the mystic Maulana Rumi wrote around 800 years ago, "If you could get rid of yourself just once, the secret of secrets would open to you. The face of the unknown, hidden beyond the universe would appear on the mirror of your perception!"

Allah says in Quran: "*Soon shall We show them OUR SIGNS in the UNIVERSE and in their OWN SELVES, until it becomes clear to them that this QUR'AN IS INDEED THE TRUTH. Is it not enough that your Lord is a witness over everything?*"(Qur'an;41:53); "*We did not create heaven and earth and everything between them to no purpose. That is the opinion of those who*

disbelieve...” (Qur’an; 38: 27), “Verily in the heavens and the earth are Signs for those who believe. (Qur’an; 45:3). “Let there be no compulsion in religion: Truth stands out clear from Error: whoever rejects evil and believes in God hath grasped the most trustworthy hand-hold, that never breaks. And God hears and knows all things.” (Qur’an; 2:255).

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The Creator:

The idea of a Supreme Power who is the First Cause of all things, the Creator and Ruler of heaven and earth has always been part of human nature from the beginning. The belief on God was followed by His worship in different cultures. The relation of a group of human beings to God or the gods or to whatever they consider sacred or, in some cases, merely supernatural is known as religion. The beliefs supporting the existence of God or against it, including the middle positions have resulted in an array of doctrines, the most prominent among them are; Theism, Monotheism, Theodicy, Deism, Agnosticism and Atheism. The main issue which have remained the center of attention of believers of the God has been; How to prove the existence of God rationally? This has been dilated upon in this book. The Abrahamic religions e.g., Judaism, Christianity, and Islam attempt to satisfy human quest through the Revealed knowledge received by the prophets and messengers of God. While exploring the historic development in

theosophical and scientific aspects about 'The God' and 'The Creation' specifically in the three religions linked to Abraham. Islam emerges as true legacy of Abraham contrary to the common perception that it was a new religion founded by Prophet Muhammad (peace be upon him). This book is first of four in the series, the other being; The Creation, The Guidance and Islam: The Legacy of Abraham.

The Creation:

Man has always been inquisitive about the origin and creation of universe to which earth is just a small part. The whole cosmic system of matter and energy is called universe. Its main constituents are the galaxies, within which are stars and stellar groupings and nebulae. Earth's Sun is one star among the billions of stars in the Milky Way Galaxy. In this book the traditional narratives and myths of Creation, Scientific & theosophical theories have been explained, The Grand Design of creation include, Qur'anic and Biblical narrative of creation and their comparative analysis. Synthesis of Islamic & scientific narrative of creation is revealing. Other subjects include human creation; Origin of life, Theory of Evolution and Refutation by Christians; the Islamic perspective include in favor and opposing views, which may appear to be new to some

readers. Further corollary is my latest work “[Universe, Science & God](#)”.

The Guidance: Does human need to be guided? If so, how?

It is said that human is a thinking, rational animal. He knows what is right and what is wrong, so does he/she need some additional source of Guidance? Some say ‘No’, while others say ‘Yes’ and still there are who say ‘I Don’t know’. The Book “Guidance” includes, natural guidance, miracles & signs; The brief on the messengers of God; from Adam – Noah – Abraham – Ishmael – Isaac – Jacob -Moses – David, Solomon - John The Baptist (peace be upon them all), Prophet Jesus Christ, The Son of Mary (peace be upon him) and The Last Messenger; Muhammad (peace be upon him). The Sacred Scriptures. i.e. The Bible and Qur’an have been briefly introduced.

Islam: The Legacy of Abraham:

Humanity has been blessed with the instincts and intellect to rationally identify and believe in the existence of a Supreme Creator and Sustainer through the signs within and all around. The man endeavors to live the life within the desired parameters to achieve His pleasure, the objective of his creation. This original

religion was revived: Islam, in its unique spirit of monotheism, fourteen hundred years ago in concordance with the light of reason; exclusive of mysterious doctrines to cast a shade of sentimental ignorance round the original truths rooted in the human intellect, representing the latest development of the religious faculties. The Book "Islam: The Broader Perspective"; includes the Islam of Prophet Abraham, refutation of Prophet Jesus Christ by Jews, evolution of Christianity, revival of Legacy of Abraham (pbuh) by Prophet Muhammad (pbuh). Its doctrines, practices and the concept of Predestination has been debated. The other subjects include; Jihad, Shari'a , Priesthood, Human Rights and role of Islamic civilization in the development of humanity and the modern challenges. For details please download and read the book, click here >> Islam: Broader Perspective.

Universe Science & God:

"Soon shall We show them OUR SIGNS in the UNIVERSE and in their OWN SELVES, until it becomes clear to them that this QUR'AN IS INDEED THE TRUTH. Is it not enough that your Lord is a witness over everything?"(Qur'an;41:53); "We did not create heaven and earth and everything between them

to no purpose. That is the opinion of those who disbelieve..." (Qur'an; 38: 27), "Verily in the heavens and the earth are Signs for those who believe. (Qur'an; 45:3). "To God belongs the Mystery of the heavens and the earth. And the Decision of the Hour (of Judgment) is as the twinkling of an eye, or even quicker: for God hath power over all things." (Qur'an; 16:77). "Let there be no compulsion in religion: Truth stands out clear from Error: whoever rejects evil and believes in God hath grasped the most trustworthy hand-hold, that never breaks. And God hears and knows all things." (Qur'an; 2:255).

Science is beginning to see the entire universe as an interlinked network of energy and information. Our capacity for fulfillment can come only through faith and feelings. But our capacity for survival must come from reason and knowledge." The follower of 3 great monotheistic faiths believe that God created the universe and governs it as per His laid down rules. The atheists reject such a set of beliefs. In philosophy there are many rational, metaphysical, logical, empirical, or subjective arguments for the existence of God. Interestingly the conclusions reached by science recently were mentioned 1400 years ago in the last Testament;

The Quran which is the subject of discussion here. To derive maximum benefit it is suggested that the book may be read with an open mind keeping aside the existing ideas.

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