

The birth and death of the universe

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By:Magdy Abd Al-Shafy

More than 1400 years ago the Holy Quran referred to the beginning of the creation of the universe in one of its Holy verses , this reference is in conformity of what is now scientifically known as " the Big Bang " . In this Holy verse , the Holy Quran rebukes the atheists of every age ,who deny the creation of the universes, the claims of the atheists are based on the unsubstantiated illusion that the universe is static and it has no beginning or end . This unsubstantiated belief , in fact , dates back to early times . The idea first appeared in the Greek time and has been fostered in the Roman time but receded back in the face of catholic church . Unfortunately and under the fascination of the early philosophy , this doom belief has taken up again and has been developed till it became a sweeping force leaving most of the world in a quagmire of paganism . Modern atheism is the product of the scientific errors and contradictions between some verses in the bible and the Torah and the scientific discoveries .

Because of the scientific contradictions between some Holy books and science , atheism reared its head again and even much more brazenly than ever before and nursed the seeds of skepticism towards religions and the existence of Allah . All the Holy books are God's word but , unfortunately , the bane is that some church men and rabbis , being influenced by the culture and the traditions of their age , interpolated such superstition in the Holy books, this was a heinous act that left what is supposed to be God's word shaky in the face of materialism . The Holy Quran , the last revealed book and since the very beginning of its revelation survived the human tampering simply because Allah, as stated in the Holy Quran , has kept it protected

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against any attempt of human tampering .

The Big Bang , a theory that explains how the universe came into being , is the most accepted theory in this regard . This theory , now a fact , is scientifically proved . When this theory was first appeared , it was shrugged and even rejected by atheists as it means that the universe has a beginning , that is , there must be a creator . Atheists welcomed many other theories such as Darwinism and materialism .

What is big bang ?

The "Big Bang" is the term given to what is currently the most widely accepted scientific model for the origin and evolution of the Universe. The creation of the universe is explained by astrophysicists in a widely accepted phenomenon, popularly known as the 'Big Bang'. It is supported by observational and experimental data gathered by astronomers and astrophysicists for decades. According to the 'Big Bang', the whole universe was initially one big mass (Primary Nebula). Then there was a 'Big Bang' (Secondary Separation) which resulted in the formation of Galaxies. These then divided to form stars, planets, the sun, the moon, etc. The origin of the universe was unique and the probability of it occurring by 'chance' is zero.

Evidences of the Big Bang

Evidences of the Big Bang

2–Large–scale homogeneity

3–Hubble diagram

4–Abundance of light elements

5–Existence of cosmic microwaves Background Radiation

6–Fluctuation in the CMBR

7–Large–scale structure of the universe

8–Tolman Tests

9–Sunyaev–zel'dovich effect

10–Integral Sachs–Wolf effect

11–Dark matter

12–Consistency

What does the Holy Quran say about the creation of the universe ? The

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Holy Qu'ran , the word of Allah, says Have not those who disbelieved known that the heavens and the earth were one connected entity, then We separated them?... (Quran, 21:30)

Every word , every letter are the same as they were revealed more than fourteen hundred years ago . Allah says in the Holy Quran what means " We have, without doubt, sent down the message; and we will assuredly guard it (from corruption). (Al-Hegr :9)

The expansion of the universe

As we have explained the universe began with a big explosions (matter and energy) . The galaxies condensed out of this matter and continued to move away from the point of the explosion, thus the Universe has been expanding since the beginning of time. If you imagine yourself standing in any one of these galaxies and watch the motion of the other galaxies relative to you, you will notice that all the other galaxies appear to be moving away from you. This is the cosmological red shift and is due to the expansion of the Universe.

The end of the universe (The Big Crunch)

Scientists assure that the universe will have an end as it had a beginning . The universe will never be expanding .Scientists say that the universe is filled with whatever called the dark matters. Although it cannot be seen, there is solid evidence that more than 90% of the total mass in the universe is composed of Dark Matter. "It is there! It is there! It is simply not visible. (Lorna Simmons , Printed in Reflections) . The Dark matter is non-luminous matter, that cannot be directly detected by observing any form of electromagnetic radiation (light), but whose existence is suggested because of the effects of its gravity on the rotation rate of galaxies and the presence of clusters of galaxies.

The more the universe expands , The slower its velocity is . The galaxies will slow down because of the gravity of the dark matter ,in the course of time the velocity of the universe components will be nil , the gravity of dark matter will prevail , so the universe will crunch under this gravity , all the cosmos entities will recede back or reverse to where it first stems from .

Now we have discussed what does science says about the creation of the universe , and these what the Holy Quran affirms in a few words .

More than fourteen hundred years ago , the Holy Quran mentioned the following scientific facts :

(a)The creation of the universe as described in theBig Bang

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(b) The gaseous cloud out of which the universe was created

(c) The expansion of the universe

(d) The scrolling up of the universe (the Big crunch)

Allah says in the Holy Quran what means "Do not the unbelievers see that the heavens and the earth were joined together (sewn together) (as one Unit of Creation and then We unstitched (clove them) and that We made from water every living thing? So will they not believe? (Qur'an, 21:30) "

The verse says clearly that the facts about the creation of the universe will be discovered by the unbelievers, these facts were actually discovered by non-Moslems. Moreover the verse calls the atheists to rethink again over their unsubstantiated claim.

The Holy Quran uses just two words to sum up all what have been written to describe the Big Bang; the Arabic word "ratq" (rendered in English "sewn") means "mixed in each or blended". It is used to refer to the state of the universe before being exploded. The Quranic word (Ratek) is what referred to in modern science as "one mass"

The phrase "we unstitched", that is, "fataqa" in Arabic implies that something comes into being by tearing apart or destroying the structure of things that are sewn to one another. The word is used to describe the beginning of creation in the Holy Quran; it is, along with all its implication, in conformity with the meanings of the Big Bang.

In other words, when we think about the first moments of the Big Bang, we see that the entire matter of the universe was collected at one single point. In other words, everything—including "the heavens and earth" which were not created yet were in an interwoven and inseparable condition. Then, this point exploded violently, causing its matter to disunite.

Unlike the meanings of the big bang, the Quranic words denote system, wisdom, creativity while the words Big Bang, a term invented by scientists, implies random chaos. So now the Holy Quran, in the question of theism, gives the proof that the universe is not eternal and is in conformity with astrophysics. A book like this, revealed in a time when the best knowledge about universe proved to be superstition, gives accurate precise facts that are scientifically and widely accepted. It also gives credence to the prophet-hood of Mohammed, who was unlettered and neither could he read or could he write. If that prophet was imposter or counterfeiter, how dare he indulge himself in matters that don't concern the people of his age.

Here you can understand the miraculous use of the word in the Holy

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Quran , Allahsays in the Holy Quran what means " Say: if the ocean were ink (wherewith to write out) the words of my Lord, sooner would the ocean be exhausted than would the words of my Lord, even if we added another ocean like it, for its aid. (AL–Kahf:109)

Allahsays in the Holy Quran what means" And if all the trees on earth were pens and the Ocean (were ink), with seven Oceans behind it to add to its (supply), yet would not the Words of Allahbe exhausted (in the writing): for Allahis Exalted in power, full of Wisdom. (Lokman :27)

The birth of the heaven and the earth in the Holy Quran is in conformity with science .

Concerning the creation of the heavens and the earth, the Qur'an says that ,prior to the creation, the Heaven was smoke. Allahthen commanded it and the earth to come into being and they came willingly . Allahsays in the Holy Quran what means " 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."{41:1 1}. How does that , if compared with modern scientific explanations ? Let us hear a scientific explanation and then judge for ourselves. The French scientist Dr. Maurice Bucaille in his book called The Bible, the Qur'an and Science explains: " Modern science has every reason to maintain that the universe was formed from a gaseous mass principally composed of hydrogen and a certain amount of helium that was slowly rotating" (p.147). (Big Bang Theory)

Didn't the Qur'an say that the Heaven was smoke before its creation? Dr. Bucaille explains the connection between his description and that of the Qur'an as follows: "Smoke is generally made up of a gaseous substratum, plus, in more or less stable suspension, fine particles that may belong to solid and even liquid states of matter at high or low temperature" (p. 143). He therefore sees no contradiction of the Quranic use of the Arabic word dukhan (translated smoke) and a modern interpretation of that word as a gaseous mass with fine particles when speaking of the formation of the universe.

We notice here two remarkable features of the Qur'an. The first feature is that it expresses scientific truths that will be verified many centuries later. The second feature is that the Qur'an expresses those truths using terms and expressions that would avoid confusing its first readers in the seventh century. The seventh century reader of the Qur'an can easily relate to the image of smoke, and the twentieth century scientist can easily interpret the word as a gaseous mass.

Once again , how could unlettered man in the 7th century give such scientifically–proven facts unless he received a revelation from the creator of the universe .

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The Expansion of the Universe in the Holy Quran

Until the 20th century the prevailing belief was that the universe has a constant nature . However, modern research, observations, and calculations carried out by means of modern technology have revealed that the universe in fact had a beginning and that it constantly expands.

The expansion of the universe , a corollary of the Big Bang , is mentioned in the Holy Quran as evidence to Allah's infinite Might of Allah.

Allah says in the Holy Quran what means " 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)

The Holy verse uses the Arabic present participle " moosiaaona "; this word means " steadily expanding " . so the word indicates that the universe is not static but assures that the universe is constantly expanding and it will keep expanding till the Day of Judgment. The consensus of the scientists and the astrophysics reports converge on this fact . The Arabic prefix (La) in the Arabic word (La + moosiaaona) ,according to Arabic figure of speech , is used to lay emphasis on the word following it , it adds an atmosphere of importance or great extent ,the verse is clear now , it means that Allah has created the universe with His Might and that He is expanding the universe to great extent .

This Holy verse is in conformity with the newly –discovered facts about the universe expansion .

The collapse of the universe (the Big Crunch) in the Holy Quran :

The most accepted theory that explains the end of the universe is called the " the Big crunch " . Scientists say that the universe will never expand for ever . The universe will be expanding till a certain point then it will begin to slow down and finally begin to collapse , the dark matter will play an important role in this process .

scientists say that there are no what can be straight lines in the universe , all the cosmos entities runs in a curve orbits , so the end of the universe will be through folding and rolling up of the universe as a scroll folds the letters, words and sentences written inside it as it is rolled up.

Prior to the discovery of this fact , the Holy Quran , God's word , likens the universe to the face of a piece of paper

Allah says in the Holy Quran what means " 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

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is what We will do. (Qur'an, 21:104)

According to the Holy verse , the end of the universe will be through folding and rolling up of the universe as a scroll folds the letters, words and sentences written inside it as it is rolled up.

Nothing in this universe whether conceived or not conceived but is under God's control , Science words ,though correct , is void of the spiritual effect . God's word , despite speaking about abstract facts ,fills you with ecstasy .

Science again envisages mayhem and disorder in the end of the universe as did with the Big Bang . The Holy Quran , God' word , reflects God's Might and wisdom in folding the universe . The Holy Quran depicts the universe in its final stage on the doomsday ; everything will be changed ; the earth won't be the same we have , the heavens won't be the same we have .

Allah says in the Holy Quran what means "One day the earth will be changed to a different earth, and so will be the heavens, and (men) will be marshalled forth, before God, the one, the irresistible; (Abraham: 48)

The recreation of the universe and the resurrection of the dead is mentioned in the following universe

"It is He Who begins (the process of) creation; then repeats it; and for Him it is most easy. To Him belongs the loftiest similitude (we can think of) in the heavens and the earth: for He is Exalted in Might, full of wisdom.(Al-room:27)

And also , the following verse shows God's great Might "

"See that not that God, who created the heavens and the earth, has power to create the like of them (Anew)? only he has decreed a term appointed, of which there is no doubt. but the unjust refuse (to receive it) except with ingratitude."(Al Asraa :99)

To Those who reject the belief in Allah,

To those who believe but shrug His obedience ,

To those who find no time to think about the greatness of Allah, To those who reject submission to Allah,

To Those who live blind in this life ,

To those who adopt atheism though nothing to support it , we have given you the evident

, we have shown you the way , Nothing is clearer than the fact of the

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existence of Allah, nothing will escape Him

Allah says in the Holy Quran what means " No just estimate have they made of God, such as is due to Him: on the Day of Judgment the whole of earth will be but His handful, and the heavens will be rolled up in His right hand Glory to Him. High is He above the partners they attribute to Him. (Al-Zamr:67)

Allah created the universe and keeps it onward , some of the atheists, when faced with the multitude of the evidence say there might be a Creator , but he no longer keeps the universe ; this is an absurd claim ; the least anomalies can lead to the collapse of the universe . Allah says to those who claim this "And We have made, above you, seven tracts; and We are never unmindful of (our) Creation.(Al-Moenoun :17)

Also Allah says " Verily, all things have We created in proportion and measure Evidence For Design In The Universe (A;-Kamer :49)

The ultimate accuracy in the universe is well-described by Hugh Ross, Ph.D.

1. Gravitational coupling constant. If larger: No stars less than 1.4 solar masses, hence short stellar lifespans. If smaller: No stars more than 0.8 solar masses, hence no heavy element production
2. Strong nuclear force coupling constant. If larger: No hydrogen; nuclei essential for life are unstable. If smaller: No elements other than hydrogen.
3. Weak nuclear force coupling constant. If larger: All hydrogen is converted to helium in the big bang, hence too much heavy elements. If smaller: No helium produced from big bang, hence not enough heavy elements.
4. Electromagnetic coupling constant. If larger: No chemical bonding; elements more massive than boron are unstable to fission. If smaller: No chemical bonding.
5. Ratio of protons to electrons formation If larger: electromagnetism dominates gravity preventing galaxy, star, and planet formation. If smaller: Electromagnetism dominates gravity preventing galaxy, star, and planet formation.
6. Ratio of electron to proton mass. If larger: No chemical bonding. If smaller: No chemical bonding.
7. Expansion rate of the universe. If larger: No galaxy formation. If smaller: Universe collapses prior to star formation.
8. Entropy level of universe. If larger: No star condensation within the proto-galaxies If smaller: No proto-galaxy formation

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9. Mass density of the universe. If larger: Too much deuterium from big bang, hence stars burn too rapidly. If smaller: No helium from big bang, hence not enough heavy elements.
10. Age of the universe. If older: No solar-type stars in a stable burning phase in the right part of the galaxy. If younger: Solar-type stars in a stable burning phase would not yet have formed.
11. Initial uniformity of radiation. If smoother: Stars, star clusters, and galaxies would not have formed. If coarser: Universe by now would be mostly black holes and empty space.
12. Average distance between stars. If larger: Heavy element density too thin for rocky planet production, if smaller: Planetary orbits become destabilized.
13. Solar luminosity. If increases too soon: Runaway green house effect. If increases too late: Frozen oceans.
14. Fine structure constant*. If larger: No stars more than 0.7 solar masses. If smaller: No stars less than 1.8 solar masses.
15. Decay rate of the proton. If greater: Life would be exterminated by the release of radiation. If smaller: Insufficient matter in the universe for life.
16. C12 to O16 energy level ratio. If larger: Insufficient oxygen. If smaller: Insufficient carbon.
17. Decay rate of Be8. If slower: Heavy element fusion would generate catastrophic explosions in all the stars. If faster: No element production beyond beryllium and, hence, no life chemistry possible.
18. Mass difference between the neutron and the proton. If greater: Protons would decay before stable nuclei could form. If smaller: Protons would decay before stable nuclei could form.
19. Initial excess of nucleons over anti-nucleons. If greater: Too much radiation for planets to form. If smaller: Not enough matter for galaxies or stars to form.
20. Galaxy type. If too elliptical: Star formation ceases before sufficient heavy element buildup for life chemistry. If too irregular: Radiation exposure on occasion is too severe and/or heavy elements for life chemistry are not available.
21. Parent star distance from center of galaxy. If farther: Quantity of heavy elements would be insufficient to make rocky planets. If closer: Stellar density and radiation would be too great.

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22. Number of stars in the planetary system. If more than one: Tidal interactions would disrupt planetary orbits. If less than one: Heat produced would be insufficient for life.
23. Parent star birth date. If more recent: Star would not yet have reached stable burning phase. If less recent: Stellar system would not yet contain enough heavy elements.
24. Parent star mass. If greater: Luminosity would change too fast; star would burn too rapidly. If less: Range of distances appropriate for life would be too narrow; tidal forces would disrupt the rotational period for a planet of the right distance; UV radiation would be inadequate for plants to make sugars and oxygen.
25. Parent star age. If older: Luminosity of star would change too quickly. If younger: Luminosity of star would change too quickly.
26. Parent star color. If redder: Photosynthetic response would be insufficient. If bluer: Photosynthetic response would be insufficient.
27. Supernovae eruptions. If too close: Life on the planet would be exterminated. If too far: Not enough heavy element ashes for the formation of rocky planets. If too infrequent: Not enough heavy element ashes for the formation of rocky planets. If too frequent: Life on the planet would be exterminated.
28. White/dwarf binaries. If too few: Insufficient fluorine produced for life chemistry to proceed. If too many: Disruption of planetary orbits from stellar density; life on the planet would be exterminated.
29. Surface gravity (escape velocity). If stronger: Atmosphere would retain too much ammonia and methane. If weaker: Planet's atmosphere would lose too much water.
30. Distance from parent star. If farther: Planet would be too cool for a stable water cycle. If closer: Planet would be too warm for a stable water cycle.
31. Inclination of orbit. If too great: Temperature differences on the planet would be too extreme.
32. Orbital eccentricity. If too great: Seasonal temperature differences would be too extreme.
33. Axial tilt. If greater: Surface temperature differences would be too great. If less: Surface temperature differences would be too great.
34. Rotation period. If longer: Diurnal temperature differences would

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be too great. If shorter: Atmospheric wind velocities would be too great.

35. Gravitational interaction with a moon. If greater: Tidal effects on the oceans, atmosphere, and rotational period would be too severe. If less: Orbital obliquity changes would cause climatic instabilities.

36. Magnetic field. If stronger: Electromagnetic storms would be too severe. If weaker: Inadequate protection from hard stellar radiation.

37. Thickness of crust. If thicker: Too much oxygen would be transferred from the atmosphere to the crust. If thinner: Volcanic and tectonic activity would be too great.

38. Albedo (ratio of reflected light to total amount falling on surface). If greater: Runaway ice age would develop. If less: Runaway green house effect would develop.

39. Oxygen to nitrogen ratio in atmosphere. If larger: Advanced life functions would proceed too quickly. If smaller: Advanced life functions would proceed too slowly.

40. Carbon dioxide level in atmosphere. If greater: Runaway greenhouse effect would develop. If less: Plants would not be able to maintain efficient photosynthesis.

4.1 Water vapor level in atmosphere. If greater: Runaway greenhouse effect would develop. If less: Rainfall would be too meager for advanced life on the land.

42. Ozone level in atmosphere. If greater: Surface temperatures would be too low. If less Surface temperatures would be too high; there would be too much uv radiation at the surface.

43. Atmospheric electric discharge rate. If greater: Too much fire destruction would occur. If less: Too little nitrogen would be fixed in the atmosphere.

44. Oxygen quantity in atmosphere. If greater: Plants and hydrocarbons would burn up too easily. If less: Advanced animals would have too little to breathe.

45. Oceans to continents ratio. If greater: Diversity and complexity of life—forms would be limited. If smaller: diversity and complexity of life—forms would be limited.

46. Soil mineralization. If too nutrient poor: diversity and complexity of life—forms would be limited. If too nutrient rich: Diversity and complexity of life—forms would be limited.

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47. Seismic activity. If greater: Too many life-forms would be destroyed. If less: Nutrients on ocean floors (from river runoff) would not be recycled to the continents through tectonic uplift.

Dr. Alfred Kroner is one of the world's renowned geologists. He is Professor of Geology and the Chairman of the Department of Geology at the Institute of Geosciences, Johannes Gutenberg University, Mainz, Germany. He said: "Thinking where Muhammad came from . . . I think it is almost impossible that he could have known about things like the common origin of the universe, because scientists have only found out within the last few years, with very complicated and advanced technological methods, that this is the case."

We have seen the accuracy of the Holy Quran and ,now, let's review the contractions between the Holy scripture and science

Order of events in the Biblical account of Creation, compared to the order of events in the Big Bang theory.

Biblical Creation Big Bang

Earth was created before the stars Earth formed long after the stars

Plants were created a few hours before the sun. Plants formed after the sun formed

The sun was created on the fourth day after the earth The sun formed before the earth

The sun, moon and stars were created at the same time The sun formed from older stars

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