

Analysis of the Literature Review on the Universe in the Perspective of the Qur'an and Hadiths

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Abstract

The present paper aims to provide a systematic literature review that can help to explain the Qur'an chapters that also speak of the universe, which includes everything that is in the heavens and the earth. The verses speak of it to prove the power, knowledge, and infinite wisdom of the creator who is capable of creating. If we want to see its origins, we should go back in time until we find the first material. This matter has such high energy intensity that it causes a crisis, the first matter then explodes and turns into a plume of smoke. It was from this cloud of smoke that Allah created a vortex that gathered a certain amount of matter and energy around the center of gravity. This collection of matter and energy accumulated within him until under his power they formed into several different celestial bodies. This Big Bang theory, which empirical science considers a fact, is only a theory. Instructions on this matter have been in the Qur'an since 1400 years ago. This makes the Qur'an the pioneer of this theory and provides a solid foundation for the Big Bang theory. On that basis, the universe was originally a solid matter (unified period), then it exploded (separation period), and then turned into a plume of smoke (smoke period).

Keywords: Earth, Hadiths, Heavens, Universe, Quran

Introduction:

The hadith and Qur'an discuss teachings about the verses of the Qur'an and hadiths related to this universe. In the Qur'an and hadith, there are sub-discussions, one of which is the creation of the heavens and the earth. From explanations about the heavens and the earth, we can know how great the majesty and power of Allah are over this universe. Since ancient times, discussions

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of opinions about the creation of the heavens and the earth have led to the emergence of various theories about the process of the creation of the heavens and the earth. One of the most influential and closest theories to date is The Big Bang theory. Regarding the creation of the heavens and the earth, the Qur'an also discusses it in six verses; these verses describe the process of its creation, destruction, and restoration of its original shape in a perfect, beautiful, thorough, and amazing way.

Astronomers claim that what controls the behavior of the celestial bodies after the will of Allah is the mass of matter and energy that collects in these objects. So, what makes Earth a cold planet, has a blanket of gas (atmosphere) and water (ocean), and is good for human life is this mass.

According to the Qur'an which meaning is, "Praise be to Allah, who created the heavens and the earth, and made darkness and light. However, the disbelievers still associate partners with their Lord with something" (Qur'an Online, 2022, 6:1)

The verse above indicates that the sky is very dark. Meanwhile, experts on astronomy and the miracles of the Qur'an say that the darkness in the verse above is the darkness of the universe which was only recently discovered. It is a scientific truth that every celestial body moving in space, regardless of its mass, is controlled by gravitational forces and counter-gravity forces. This is what the Qur'an calls *al-uruj*.² If humans don't understand the movement of objects in space, humans cannot launch, neither satellites or can they explore space.

The Quran describes the awesomeness of the lowest heaven. The lowest sky is the sky topped by the Milky Way which astronomers say has a hundred billion stars. Hence, the total number of stars cannot be imagined (Sulaiman, 2001). Thus the verses about the universe are not intended to fulfill the need for scientific information. Allah wants the process of seeking knowledge to be carried out by observation, deductive research, and experiments that can be carried out throughout the ages because of the limitations of the human senses and the accumulative nature of science. The verses of the Qur'an, of course, contain several scientific facts about the universe that cannot be debated because they are revelations from the creator which are absolute truths.

Discussion:

Creation of Heaven and Earth:

The mysterious universe, which consists of stars, planets, nebulae, comets, meteors, and space, is so vast in diameter that its vastness can only be expressed in numbers that amaze our imagination, and even then are unable to describe the true impression of that vastness. The Quran describes the awesomeness of the lowest heaven. The lowest sky is the sky topped by the Milky Way which astronomers say has a hundred billion stars. Hence, the total number of stars cannot be imagined (Sulaiman, 2001, p. 40). The Qur'an as well as the Old Testament talks about the creation of the earth and both claim that the creation took six days. The word "Yaum" in Hebrew and Arabic does not even mean 24 hours, but an infinite period. Both the Bible and the Qur'an also mention days that are 50,000 years long as mentioned in Quran surah Al Ma'arij, 70:4 (Sulaiman, 2001, p. 47).

The Qur'an is a book of instructions. Allah revealed it to explain to humans' things that cannot be understood by human common sense, such as the essence of faith, rituals of worship, and ethical and legal foundations that are useful for regulating social interactions among human beings. The Qur'an also talks about the universe which includes everything that exists in heaven

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and earth. More than a thousand verses talk about it for proving the unlimited power, knowledge, and wisdom of the creator who can create, eliminate and restore the original shape of this universe.

Thus the verses about the universe are not intended to fulfill the need for scientific information. Allah wants the process of seeking knowledge to be carried out by observation, deductive research, and experiments that can be carried out throughout the ages because of the limitations of the human senses and the accumulative nature of science. The verses of the Qur'an, of course, contain several scientific facts about the universe that cannot be debated because they are revelations from the creator which are absolute truths. An example is the matter of the creation of the heavens and the earth, which is discussed in the Qur'an in six verses. These verses tell about the process of creation, destruction, and restoration of its original form in a perfect, beautiful, thorough, and admirable way (Thayyarah, 2013, pp. 328-329). These verses include;

- i. "Then, I swear by the circulation of the stars. And, verily it is indeed a great oath if you only know." (Qur'an Online, 2022, Al-Waqi'ah, 56:75-76).
- ii. "And, the sky We built with (Our) power and We really expand it." (Qur'an Online, 2022, Adz-Dzariya, 51:47).
- iii. "And do those who disbelieve not know that the heavens and the earth were once one, then We separated them?" (Qur'an Online, 2022, Al-Anbiya', 21:30).
- iv. "Then, He went up to the sky and it was still smoke." (Qur'an Online, 2022, Fushshilat, 41:11).
- v. "(Remember) the day when We rolled up the sky like sheets of paper. Just as we have started the first creation, so we will repeat it again. (A promise that We will definitely keep. Indeed, We will carry it out. (Qur'an Online, 2022, Al-Anbiya', 21:104).
- vi. "(That is) on the day (when) the earth is replaced by another earth and (so does) the sky." (Qur'an Online, 2022, Ibrahim, 14:48)

Allah SWT facilitates human life on earth by providing all the needs and adapting the conditions of the earth for humans. We can live on earth because there is enough water, oxygen, and food to live. The temperature of the earth is also following the human needs to live. Earth also emits materials needed by humans, such as iron used to develop technology or oil and natural gas as energy sources.

The earth has several layers due to the principle of differentiation, in which layers separate due to differences in the composition and temperature of the moving earth's constituent materials.

The actual number of layers of the earth cannot be known with certainty because humans only estimate based on seismic data and cannot directly observe or take samples from each of the existing layers. The Al-Quran explains that there are quite a lot of layers of the earth according to the following verse in the letter *ath-thalaq*:

12. It is Allah who created the seven heavens and the earth as well. Allah's commands apply to him, so that you may know that Allah has power over all things, and that indeed Allah His knowledge truly encompasses everything. (Qur'an Online, 2022, Ath- Thalaq, 65:12).

The number of layers of the earth according to the division presented in the table above is seven, according to the description of the number of layers of the earth in Surah Ath-Thalaq verse 12. The condition of the earth which has layers with different characteristics has its wisdom for

life on earth. Bimu's thermal energy can also be used by humans as a source of energy for electricity generation (Sani, 2014, pp. 102-104).

Some of the earth's thermal energy is probably formed due to the decomposition reaction of the uranium and thorium nuclei which produce energy that causes the earth's bowels to heat up. Herndon developed the concept to explain the emergence of thermal energy on the earth using Fermi's core reactor theory. Simulations carried out by considering the earth's core as a georeactor which has a core decomposition reaction (core vision) turned out to be very suitable.

The existence of thermal energy generated by chemical and physical processes in the bowels of the earth keeps the planet warm. However, excess thermal energy due to continuous reactions must be released periodically, such as through volcanic eruptions.

The earth's surface is spread out in such a way as to form volcanoes which function as a place for thermal energy to escape from the earth so that there is no excess thermal energy that can make it shake. Earth's upper plates called the lithosphere are still moving today and often pile on top of each other causing earthquakes. The spread of the earth means spreading and following the Gondwana theory which explains that at first all the land plates were united.

The Qur'an, 51:48 explains the event of the spread in several verses, including: and the earth we spread out; then (We) are the best that has spread (Sani, 2014, pp. 105-107).

The Orbits of the Stars:

Meaning: So I swear by the time when parts of the Quran were revealed. Verily, that oath is great if you know (Qur'an Online, 2022, Al-Waqi'ah: 75-76).

The oath in the Qur'an is a form of attracting the attention of Muslims in particular and humans in general to the contents of the oath. The reason is, Allah does not need to swear at all to convince His servants. The star itself is a lump of gas that is burning, burning, and shining from within itself. Its light will continue to burn for millions of years without going out. This is a result of the interaction of the atoms in the star. This is known as the "process of melting atomic nuclei".

Why does Allah swear by the orbits of the stars, not by the stars themselves? Inland Arabs or Bedouins at the time of the Prophet heard about this oath. They also said, "The orbits of the stars are so large that it is worthy of being sworn in his name, also because the place is very far away." The closest star to us is about 4 light-years and 3 months away. One light year alone is approximately equivalent to 9.5 trillion km. In our galaxy alone, more than a trillion sun-like stars have been found. In space, there are more than 200 billion galaxies like ours. Some are much larger than the Milky Way and some are slightly smaller. Here we can find a bigger secret related to this oath. A secret that has not been known by the previous people. The answer to the above question that scientists have been able to find in recent years is that humans from the surface of the earth may not be able to see the stars directly, but they can only see the orbits or orbits that the stars have passed.

The sun itself is moving towards the star Vega at a speed of 19.4 km/sec, rotating around the center of the galaxy at a speed of 220 km/sec. The sun is moving, but we do not see it. When we look at it, we only see the orbit it has passed.

Scientists say that the closest star to us besides the sun is 4 light years and 3 months away. The light it emits will reach us after more than 50 months. By the time the light reaches us, the star has moved to another place very far away.

Not only that but there are also stars whose light in orbit can still be seen in the expanse of the sky on a pitch-black night. Science has determined that the star actually exploded thousands of

years ago and is now no longer tangible.

This is one of God's grace to us. The reason is, if humans look directly at the stars, they will lose their sight. This is one of the amazing glimpses of the Qur'an, and a sign of Allah's power. Thus, the stars that we see on a pitch-dark night are only the rays of light from the orbits that the stars have passed, the stars allow their light to move towards us from the orbits that they have passed.

Not only that. Star orbits indicate space and time. The magnitude of an orbit indicates an increase in time or the maturity age of a star. Modern science determines that the orbits of stars, both near and far from us, are in harmony with their ages. Space and time are *sunnatullah* (the rules of God) that control every end of the universe, namely through the laws of gravity that are spread between celestial bodies.

Allah says, "Indeed, it is Allah who keeps the heavens and the earth from disappearing; and if both of them will disappear, no one will be able to hold it but Allah. Indeed, He is Most Forbearing, Most Forgiving" (Qur'an Online, 2022, Fathir: 41).

Among *sunnatullah* (the rules of God) is the force of gravity. Gravity controls the sides of the universe and is related to orbits or empty spaces (space and time) as well as to mass and energy. This wondrous vow gives attention to space (place). This is because monitoring the orbits of stars is a starting point for human knowledge about how God created the universe. When scientists observed stars, began to study their orbits, and determine their physical and chemical properties, they discovered that the universe that surrounds us is constantly expanding and expanding.

How can they find out this fact? They found it through a simple experiment with a light source viewed with a prism. The prism glass decomposes white light when it is burned into a spectrum of seven colors which have their wavelengths. The seven spectrums are red, orange, yellow, green, blue, indigo, and purple. If the light source moves away from us, the color band will turn red. This is because the red spectrum is the shortest.

If the light source is static, the color pool will display the seven-color spectrum. But as light moves closer to us, that band of colors changes to a spectrum of blue, then purple. It is because the purple spectrum is the longest wavelength.

Therefore, humans can never find an observable edge of nature. The reason is, every time humans develop their astronomical equipment, nature also expands, so humans need to develop their equipment again. The Qur'an describes this fact in great detail, "And the heavens We built with (Our) power and We really expanded it" (Qur'an Online, 2022, Adz-Dzariyat, 51:47; Thayyarah, 2013, pp. 330-334).

The Qur'an mentions the existence of stars in general without specifying their place. This is because the Al-Quran is not an astronomical book nor does it provide lessons on astronomy as previously explained, but rather it is God's Holy Book to guide humans in life in this world. (Rahman, 1992, p. 63)

Expansion of Nature:

That solid object of course has a very high energy intensity, where all the laws of physics are collected in it and make it in a very critical condition. Then, the solid object exploded at Allah's command and turned into a plume of smoke. It was from this wisp of smoke that God created the earth and other celestial bodies. Nature is now expanding. If we want to see its origins, we should go back in time until we find the first material. This matter has such high energy intensity that it causes a crisis, the first matter then explodes and turns into a plume of smoke. It was from this cloud of smoke that Allah created a vortex that gathered a certain amount of matter and energy

around the center of gravity (vortex). This collection of matter and energy accumulated within him until under his power they formed into several different celestial bodies (Thayyarah, 2013, pp. 334-335).

This is the most widely accepted theory of the growth process of the universe. This theory is called the Big Bang theory or The Big Bang Theory. This theory is reinforced by the fact that there is an expansion of the universe, the stability of the hot temperature at the ends of the universe that has been observed, the distribution of elements on the surface of the universe that has been observed, and images of the universe's smoke found at the ends of the universe that have been observed.

The Qur'an illustrates this fact through the words of Allah,

30. And do those who disbelieve do not know that the heavens and the earth were both one solid, then We separated between them. and from the water We made every living thing. So why do they not also believe? (Qur'an Online, 2022, Al-Anbiya', 21:30).

The word *ratqun* (to unite) in the verse above is linguistically the antonym of the word *fatqun* (to separate). *Ratqun* means to gather and accumulate. This is a very thorough description of the natural conditions when it was still in the form of the first matter, before the big bang. Nature in this condition can be categorized as being in a unified period. As for *fatqun* means explosion, spread, and separation. Nature after matter first exploded into expansion is said to be in a period of separation. This Big Bang theory, which empirical science considers a fact, is only a theory. Instructions on this matter have been in the Qur'an since 1400 years ago. This makes the Qur'an the pioneer of this theory and provides a solid foundation for the Big Bang theory as a fact because of the instructions in the Qur'an. On that basis,

The universe was originally solid matter (unified period), then it exploded (separation period), and then turned into a plume of smoke (smoke period). Empirical scientists stated that nature turned into a lump of dust, while the Qur'an says, "Then, He went to the sky and (the sky) was still smoke, then He said to him and the earth, 'Come you two according to My command with obedient or forced.' Both replied, 'We came obediently'" (Qur'an Online, 2022, Fushshilat, 41:11; Thayyarah, 2013, pp. 335-336).

Smolder (Fog):

Scientifically, smoke or fog (*dukhan*) is defined as a substance in which most of the material is gas and some are solid particles, some are dark and some are hot. The verses of the Al-Quran indicate this through His words,

Meaning: then He went to the creation of the heavens and the sky was still smoke, then He said to it and the earth: "Come you both according to My command willingly or forced". both answered: "We are coming willingly" (Qur'an Online, 2022, Fushshilat, 41: 11).

From the verse above, the question immediately arises, whether the earth and the sky can speak so that both of them can answer God's commands. "We come obediently," or is the answer only symbolic? (Thayyarah, 2013, p. 336).

Astronomers claim that what controls the behavior of the celestial bodies after the will of Allah is the mass of matter and energy that collects in these objects. So, what makes Earth a cold

planet, has a blanket of gas (atmosphere) and water (ocean), and is good for human life is this mass. Mass itself is a collection of matter and energy carried by celestial bodies when released from a plume of smoke after a big explosion. The matter and energy then adjust to form gravitational forces.

The next question is, who created the mass? The logical answer is God. This is what is meant by the word of God, “Then He said to him and the earth, ‘Come both of you according to My commandments obediently or forcedly.’ Both answered, ‘We come obediently’.” In another verse Allah says, “And there is nothing but glorify Him with praise, but you do not understand their *tasbih*.” (Qur’an Online, 2022, Al-Isra’, 17:44). This verse explains that the answers of the heavens and the earth to God’s commands may be essential, but we do not understand them (Thayyarah, 2013, p. 337).

The Quran combines the story of the creation of the universe in just six verses, but in incredible detail. These six verses summarize the creation of nature, its destruction, and its re-creation from scratch with indescribable precision and beauty. No one could have imagined the existence of such a natural process until the end of the 20th century (Thayyarah, 2013, p. 339).

The Dark Space:

Allah said,

Meaning: Praise be to Allah who created the heavens and the earth and made darkness and light, but those who disbelieve associate (something) with their God. (Qur’an Online, 2022, Al-An’am, 6:1).

The verse above indicates that the sky is very dark. Meanwhile, experts on astronomy and the miracles of the Qur’an say that the darkness in the verse above is the darkness of the universe which was only recently discovered. This last opinion confirms the existence of the miracles of the Qur’an in the field of astronomy and the existence of other darkness. These darkens include:

- i. The early darkness of the universe, namely in the period after the big bang until the beginning of the process of melting atomic nuclei, for about 30 million years. This period is characterized by extreme darkness.
- ii. Local darkness in a certain part of the universe, namely in the period after the start of the process of smelting atomic nuclei to our present day. It is at this time that the stars created and began to emit light into space. The light consists of infrared light, electromagnetic waves, visible light spectrum, ultraviolet light, X-rays, and gamma rays (Thayyarah, 2013, pp. 339-340).

When sunlight reaches the atmosphere, it will decompose and be scattered between air and dust particles. This is what physicists call the splitting of light. The sunlight is then reflected by air and dust particles so that the particles appear to glow. That is what in our terms the world is called an area exposed to sunlight or a luminous area without the presence of the sun. If we look back at the Book of Allah which was revealed 1,400 years ago, at that time people were not familiar with traveling to the heavens, space invasions, traveling through the atmosphere, and so on, this is a scientific miracle. Allah says:

Meaning: and if we had opened for them one of the (doors) of the sky, then they

had continued to climb on it, they would have said: “Surely it is our sight that has been obscured, even We are the ones who have been enchanted” (Qur’an Online, 2022, Al-Hijr, 15:14-15; Thayyarah, 2013, p. 341).

The Qur’an likens the end of the afternoon session by skinning an animal that is slaughtered thinly from its entire body. This parable confirms that darkness is the origin of the condition of the universe and that day is only a temporary natural phenomenon. Day only occurs in some parts of the world covered by the earth’s atmosphere, precisely on the half of the earth’s circle facing the sun when rotating. With the rotation of the earth, the day peeled off from the darkness of the night, and the darkness of the sky gradually peeled off as the skin of a slaughtering beast peeled off its body.

As for entering the sky, it is not possible except through an opened door. Meanwhile, the movement of celestial bodies is only in the form of a curved line, not straight. This is what in the Al-Quran is called *uruj*³ or is called rising to the sky (Thayyarah, 2013, pp. 342-344).

Space Objects Move in Curved Lines:

The mysterious universe, consisting of stars, planets, nebulae, comets, meteors, and space, is so vast in diameter that its vastness can only be expressed in numbers that amaze our imaginations. Even that, without us, being able to describe the true impression of that vastness (Sulaiman, 2001, p. 40).

The solar system consists of the sun, 9 planets, and satellites. The Qur’an describes how this system will end. There are a lot of tools that make up the facts regarding the breakdown of this system. These verses tell us how the solar system will end but don’t give us the exact time it will happen (Sulaiman, 2001, p. 44).

Al-Uruj means rising and coming out of a straight line or walking in a curved path. Modern scientific studies have proven that the movement of heavenly bodies cannot be in a straight line, but must be bent and curved, according to the magnification of matter and energy in the universe. So, any object that has matter, regardless of its mass, cannot possibly move in the universe other than in a curved line.

The explanation, among other things, is that the movement of every solid object from the earth to the sky must be in a curved trajectory because the object is influenced by the earth’s gravitational force and the counter-gravity force that pulls the object into the sky. Both forces depend on the mass of the moving object. If the two opposing forces are balanced, the object will be compelled to rotate around the earth with a horizontal velocity, or what is known as angular velocity.

Suppose we can fly across the universe. So we cannot see small objects like our earth, even if we try to look for them as carefully as possible. We’ll be like a man flying across the Mississippi Valley looking for grain, wheat seeds hidden somewhere in the Americas. This miracle has survived through the centuries without being interpreted. This miracle waits for a mind that can digest it until the end. It is a science that recently demonstrated the majesty of this miracle (Sulaiman, 2001, p. 42).

The precise balance that Allah created between the two forces was brought about by the process of expansion of the universe, it is what determines the orbits of all the heavenly bodies and the speed of their rotation on their respective axes.

³ ascending to the sky

For example, each day the sun appears to rise in the east, peak at noon and set slowly in the west. In the Qur'an, it has also been told that the earth also moves. In the 27th letter, al-Naml, verse 88, where according to the Qur'an the mountains move invisibly. Isn't this clear evidence that the Qur'an teaches us that the earth is not silent? (Sulaiman, 2001, p. 33).

If the gravitational force of the earth decreases as the object's height above the earth's surface increases, the speed of the object being pushed into space will change according to the object's height above the earth's surface. What controls the object is the gravity of the earth while what pushes the object up into space is counter-gravity.

The Qur'an has described the ascent of solid objects to the sky in several places, including:

- i. "He knows what enters the earth, what comes out of it, what descends from the sky, and what ascends to it" (Qur'an Online, 2022, Saba, 34:2).
- ii. "He arranges all affairs from heaven to earth, then matters go up to Him in one day which is a thousand years according to reckoning" (Qur'an Online, 2022, As-Sajdah, 32:5).
- iii. "And if it were not for preventing people from becoming one ummet (in disbelief), We would have made for the disbelievers to (Allah) the Most Merciful, the attices of their houses of silver, as well as the stairs they climb" (Qur'an Online, 2022, Az-Zukhruf, 43:33).
- iv. "The angels and Gabriel anik (face) God in a day, which is equivalent to fifty thousand years" (Qur'an Online, 2022, Al-Ma'arij: 4).
- v. "(He knows) what comes down from the sky and what goes up there" (Qur'an Online, 2022, Al-Hadid, 57:4).
- vi. "And if We open one of the gates of heaven to them, they will keep on climbing up on it" (Qur'an Online, 2022, Al-Hijr, 15:14).

All of this further convinces us that the sky is a solid building, filled with matter and energy, and cannot be penetrated except by opening its doors. Just as the heavens are filled with solid doors, the upper layers of the atmosphere that enveloped the globe are also filled with doors. Therefore, if the spacecraft wants to get out of the atmosphere, it must take a certain and limited path. He must pass through certain angles and paths to survive from the gravitational area to free space. Otherwise, the plane will catch fire. Conversely, if the spacecraft wants to return from space to earth, it must enter through certain doors and paths at the top level of the atmosphere. Otherwise, it will stay in space or burn up.

The Sky Is Filled With Doors:

Allah said: "And if We open to them one of the doors of heaven, then they continue to climb on it, they would surely say, 'Indeed, it is our vision that is obscured, even we are people affected by magic'" (Qur'an Online, 2022, Al-Hijr, 15:14-15).

The two verses above were revealed to discuss the stubborn attitude of the Quraysh

disbelievers to oppose and deny the teachings and instructions that the Prophet brought.

If Allah had opened the doors of heaven for them and helped them to ascend to the sky with their bodies so that they could see the beauty of Allah's creation and His power in creating creatures, they would have complained about their sight and reason, and pretended that they could not see at all and are in a state of bewitchment. All of that is their attempt to deny the truth due to stubbornness and too much pride.

Here we are not explaining the heads of people who oppose the truth, here instead we will explain the two verses above, and these verses are classified as one of the greatest miracles in the field of astronomy. Astronomical studies in recent years have proven that the sky is not empty as many scholars believe, but is filled with matter. There is matter in gaseous forms, such as hydrogen, helium, and small amounts of oxygen, nitrogen, neon, and water vapor. There is also some material in solid form and various rays, such as infrared rays, X-rays, and Gamma rays. Has characteristics that make it able to reveal sunlight to revive the earth.

Allah said, "And indeed, (the Qur'an) was truly sent down by the Lord of the universe," (Qur'an Online, 2022, Asy-Syu'ara, 26:192) and "(the Qur'an) will not be visited by evil, whether from the front or behind (in the past and the future). The Qur'an was sent down from God, who is wise and most praised" (Qur'an Online, 2022, Fushshilat, 24) Verily, the Qur'an is a miracle that lasts forever throughout the ages until the earth and everything on it returns to Allah.

As for entering the sky, it is impossible except through a door that is opened. Meanwhile, the movement of celestial objects is only in the form of curved lines, not straight. This is what the Qur'an calls *uruj*.⁴ That are some of the scientific miracles contained in the word of God, "And, if We open to them one of the doors of heaven, then they continue to climb on top of it, surely they will say, "Indeed it is our vision that has been obscured, even we are the people affected by magic" (Qur'an Online, 2022, Al-Hijr, 15:14-15).

Conclusion:

Nature is now expanding. If we want to see its origins, we should go back in time until we find the first material. This matter has such high energy intensity that it causes a crisis, the first matter then explodes and turns into a plume of smoke. It was from this cloud of smoke that Allah created a vortex that gathered a certain amount of matter and energy around the center of gravity (vortex). This collection of matter and energy accumulated within him until under his power they formed into several different celestial bodies.

This Big Bang theory, which empirical science considers a fact, is only a theory. Instructions on this matter have been in the Qur'an since 1400 years ago. This makes the Qur'an the pioneer of this theory and provides a solid foundation for the Big Bang theory as a fact because of the instructions in the Qur'an. On that basis, the universe was originally a solid matter (unified period), then it exploded (separation period), and then turned into a plume of smoke (smoke period). Empirical scientists state that nature turned into a lump of dust, while the Qur'an says, "Then, He went to the sky and (the sky) was still smoke, then He said to him and the earth, 'Come you two according to My command with obedient or forced.' Both replied, 'We came obediently'" (Qur'an Online, 2022, Fushshilat, 41:11).

It is a scientific truth that every celestial body moving in space, regardless of its mass, is controlled by gravitational forces and counter-gravity forces. This is what the Qur'an calls *al-uruj*. If humans do not understand the movement of objects in space, then humans cannot launch

⁴ ascending to the sky

satellites nor can they explore space. As for entering the sky, it is impossible except through a door that is opened. Meanwhile, the movement of celestial objects is only in the form of curved lines, not straight. This is what the Qur'an calls uruj. That is some of the scientific miracles contained in the word of God, "And, if We open to them one of the doors of heaven, then they continue to climb on top of it, surely they will say, "Indeed it is our vision that has been obscured, even we are the people affected by magic" (Qur'an Online, 2022, Al-Hijr, 15:14-15).

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