

# Comparison of the Expansion and End of The World in The Qur'an and New Science

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## ABSTRACT

Comparison of the expansion and end of the world in the Qur'an and new science is one of the important issue and this comparison is quite vital to be considered. In this article, according to the scientific information of the Quran, which corresponds to the findings of contemporary scientists, we have investigated black holes. Black holes form when a star uses up all its fuel. A black hole is a point of space with so much gravity and density that even light cannot escape. This attraction is so strong that it compresses all matter into a small space. According to the theory of general relativity, matter that is compressed enough can bend space-time and form a black hole. The black hole's point of no return is called the event horizon. Black holes do not reflect any light. But they can be identified based on the effects they have on the materials and objects around them. Fourteen centuries ago, when science and astronomy were still very primitive, the fact that the sun and the stars will one day lose their light has been stated in numerous Quranic verses.

**Keywords-** Quran, comparison, new science, scientific issues.

## I. INTRODUCTION

The relationship between the Qur'an and science is already surprising, especially when it turns out to be one of harmony rather than conflict. The contrast between a religious book and the secular ideas that science proclaims may seem like a paradox to many people today. Most of today's scientists, with the exception of a few, are actually tied to material theories and only have indifference or contempt for religious issues, which they often consider to be based on legends [6,7]. Despite scientific issues, the Holy Quran is basically a moral and spiritual book. This book calls the human mind to the truth and teaches all mankind to adhere to the values of the holy revelation. This book is a unique tool for guiding people from the time of the rise of Islam to the Day of Judgment. According to many physicists, the Big Bang was the beginning of the universe. Scientists, astronomers, and cosmologists today agree that the universe as we know it was created in a big bang that created not only matter, but also the

physical laws that govern our expanding universe. The American Space and Aeronautics Administration (NASA) received the remains of the big explosion in space in 1992. This great discovery is a good evidence that explains the truth of the creation of the universe from nothing. But this matter was mentioned in the Qur'an fourteen centuries ago, when science and astronomy were still very primitive.

## II. EXPANSION OF THE UNIVERSE

The expansion of the universe is the increase in distance between any two non-gravitational parts of the observable universe with time. It is an inherent expansion whereby the scale of space itself changes. Among them, advances in astronomical observations over the past century have allowed scientists to develop a highly successful model of how the universe works. But when it comes to how fast the universe is expanding, some cosmological measurements confuse us even more. We've known since the 1920s that the universe is

expanding—the more distant the galaxy, the faster it's moving away from us. In fact, in the 1990s it became clear that the rate of expansion was increasing. The current rate of expansion is described by something called the "Hubble constant" - a fundamental cosmological parameter [3].

The Qur'an, written 14 centuries ago, when science and astronomy were still very primitive, says this about the development of the universe. And We raised the sky by Our power and enlarged it (Al-Dhariyat: 47). The word Sama, which is translated as the sky, as seen in this verse, appears in many places in the Qur'an. Sama refers to space and wider objects. It has the same meaning here. It means that the universe develops. As a result, we greatly expand the sky or the universe. This is the result that scientists have found today. Until the beginning of the 20th century, science believed that the universe had a fixed nature and had always existed. While research, observations and new calculations by the technology of Ma'atar show that the universe has been expanding and is always developing. At the beginning of the 20th century, the Russian physicist Alexander Friedmann and the Belgian astronomer George Lemaitre calculated that the universe was constantly moving and developing [1, 7].

### III. RELIGION AND SCIENCE

There is, perhaps, no better illustration of the close links between Islam and science than the Prophet Muhammad's often-quoted statements:

*“Seeking knowledge is compulsory on every Muslim.”*  
*“wisdom is the lost property of the believer.”*  
*“whoever follows a path seeking knowledge, Allah will make his path to paradise easy.”*

These statements and many others are veritable invitations to humanity to enrich their knowledge from all sources. It comes as no surprise, therefore, to learn that in Islam religion and science have always been considered as twin sisters and that today, at a time when science has taken such great strides, they still continue to be associated. Nor is it a surprise to learn that certain scientific data are used for the better understanding of the Qur'anic text. What is more, in a century where, for many people, scientific truth has dealt a deathblow to religious belief, it is precisely the discoveries of science that, in an objective examination of the Islamic scripture, have highlighted the supernatural nature of revelation and the authenticity of the religion which it taught (Bucaille, 2014, p. 7).

### IV. THE QUR'AN AND SCIENCE

For many centuries, humankind was unable to study certain data contained in the verses of the Qur'an because they did not possess sufficient scientific means.

It is only today that numerous verses of the Qur'an dealing with natural phenomena have become comprehensible. A reading of old commentaries on the Qur'an, however knowledgeable their authors may have been in their day, bears solemn witness to a total inability to grasp the depth of meaning in such verses. I could even go so far as to say that, in the 20th century, with its compartmentalization of ever-increasing knowledge, it is still not easy for the average scientist to understand everything he reads in the Qur'an on such subjects, without having recourse to specialized research. This means that to understand all such verses of the Qur'an, one is nowadays required to have an absolutely encyclopedic knowledge embracing many scientific disciplines (Bucaille, 2014, p. 10).

#### *Islamic eschatology:*

(Arabic: *عِلْمُ آخِرِ الزَّمَانِ فِي الْإِسْلَامِ*, 'ilm ākhir az-zamān fī al-islām) is a field of study in Islam concerning future events that would happen in the end times. It is primarily based on sources from the Quran and Sunnah. Aspects from this field of study include the signs of the final age, the destruction of the universe and Judgement Day. The general consensus of Muslim scholars agree there would be tremendous and distinctive signs before the world ends. Among which would be an era of trials and tribulations, a time of immorality followed by mighty wars, worldwide unnatural phenomena and the return of justice to the world. Defining figures are also prophesied such as the Mahdi, and the Second Coming of Isa who brings about a heavenly victory against Dajjal, Antichrist ending with the release of Yajuj and Majuj (Gog and Magog) to the world. Once all the events are completed, the universe shall be destroyed and every human being would be resurrected to be held accountable for their deeds.

### V. BIG CRUNCH

The Big Crunch is a theory that explains that the universe stops expanding at a point and therefore collapses, creating a black hole that absorbs everything in its path[9,11].The Big Crunch is a model of the universe that is somewhat symmetric to the Big Bang, in which a closed universe eventually contracts again after a phase of expansion. In this final phase of the universe, the temperature and density increase once again, destroying material structures such as galaxies, planets, atoms, and even nucleons[3, 7]. The universe returns to the plasma state of quarks and gluons. In this model, if only the classical equations of general relativity are used to describe space-time, a gravitational singularity results: space and time disappear with the matter they contain. But quantum effects, such as those found in superstring theory or ring quantum theory of gravity, can prevent this singularity from forming. The universe will reach a minimum size before returning to a new expansion phase[8]. The discovery of the accelerated expansion of the universe implies that it will never end and therefore

the Great Crisis will not occur. Since we do not know the nature of the dark energy that is assumed to be responsible for this accelerated expansion, nothing is known for certain. So, nevertheless, the universe ends up in a Big Crunch if dark energy is described by a scalar field whose energy density changes in such a way that it eventually becomes attractive rather than repulsive (hence, supergravity models exist, such as by Renata Kalosh and Andrei Linde in which the universe stops accelerating and turns into contraction to end in a big crunch in a few tens to hundreds of billions of years)[6,10].

Working and living in a global society and multicultural and multilingual countries require the ability to create interactions and relationships with people who are different from oneself. It is critical to know how to assess our cultural competency and evaluate our own cultural behaviors. Globalization and diversity lowered the barriers that once separated cultures both internationally and domestically. Cultural competency skills can help businesses, educational deal, internal and international relationship, society development, diplomatic relationship and other related concepts run more productively, properly, professional, and efficiently. Practicing cultural competency skills can also elevate your skills, knowledge, communication, transaction, and so on.

Scientists say that when the mass of the universe becomes large enough, this expansion will finally end because the force of gravity causes it to collapse in on itself. It is believed that the universe is shrinking to an intense heat, which is known as the Big Crunch [7].

The whole world shrinks and goes away. and turns into a point smaller than a proton. Physicists know that dark energy can become negative and destroy the universe in the very distant future. Now we may not be at the beginning of the life of the world, but in the middle of it.

Finally, the Big Crunch hypothesis says that the developed world will decay at an increasing rate until it loses all its mass and turns into a single point of infinite dirt.

This issue is stated in the Holy Quran as follows:

يَوْمَ نَطْوِي السَّمَاءَ كَطَيِّ السِّجِّينِ لِلْكُتُبِ ۗ كَمَا بَدَأْنَا أَوَّلَ خَلْقٍ نُعِيدُهُ ۗ وَعِنْدَنَا عِلْمٌ بِمَا كُنَّا فَاعِلِينَ

The day when we will roll up the heavens like a scroll and return them to the original state that we created, this is a promise that we will certainly fulfill (Anbiya-104)[12,13].

## VI. CONCLUSION

The comparison which has been done through reliable sources prove the vital issues to decide the

importance of the issue by the provided sources. The findings of science and the information of the Holy Quran about the fact that the entire universe, along with material and temporal dimensions, came into being as a result of a strong explosion a long time ago. An agreement has been reached; this explosion was issued from a point fifteen billion years ago. Also, the Big Crunch hypothesis says that the world that has developed will decay at an increasing speed until it loses all its mass and may become a single point with infinite dirt. These two hypotheses are completely consistent with the words of the Holy Quran and this incident will happen one day. Therefore, it can be said that the Quran is a complete guidance for humanity and invites humanity to the truth, and there is no doubt in its statements.

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