

## **Spatial Vortices in The Qur'an and Modern Science**

**Sayed Najibullah Anjab**

Department of Islamic Culture, Faryab University, Maimana, AFGHANISTAN.

Corresponding Author: najibanjab@gmail.com



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### **ABSTRACT**

Atmospheric vortices are one of the new issues that have attracted the attention of scientists today. The Holy Qur'an refers to atmospheric vortices in the first verse of Surah Takweer as the extinguishing and wrapping of the sun, in the eighth verse of Surah Qayamat as the dimming of the moon, in the first verse of Surah Najm, the eighth verse of Surah Mursalat and the second verse of Surah Infatar is mentioned as fading, darkening and scattering and collapsing of heavenly lights and stars. One of the types of death of stars is turning into vortices and black holes; Vortices are one of the most important astronomical phenomena that occur after the death of large stars. Vortices and black holes are the strangest objects in the world that do not reflect any light and do not bring us information; In addition, most vortices and black holes are the last stage of life of the brightest stars in the world; The main goal of this research is to explain the existence of the problem of spatial vortices in the Qur'an and compare it with modern science. What adds to the importance of this research is encouraging readers and researchers of today's world to study the Holy Quran and inviting them to discuss the issues of the day. The chosen method in this research is a library and analytical one, which first quotes Quranic verses from authentic books of interpretations and other books of modern science, then analyzes those verses and the ideas of scientists and the works and benefits derived from it. And it has been pointed out.

**Keywords-** vortex, space, Quran, and new science.

As it is known, vortices and black holes are astrophysical objects that are very dense, and even light cannot escape from them. The theory that such bodies may exist dates back to the era of modern physics. Newtonian physics may be used to predict the existence of "dark stars," a region of space whose gravitational field is so strong that no matter or radiation can escape. This star forms when a massive star runs out of fuel and can no longer support itself under its own gravity. For this reason, it collapses in a supernova explosion and leaves behind a very dense core and finally ends as a point and covers a region from which there is no escape. Does not exist. It is also thought that vortices are formed in the center of galaxies through the gradual capture of stars in that region. In general relativity, vortices are described as regions where the curvature of space is specifically defined [1]. A vortex captures all the light that falls on it and cannot be directly imaged, an observer sees a dark spot in the sky where the BH is supposed to be... Due to the strong bending of light rays

by gravity and vortex attraction, both the size and shape of this point are different from what we naively expect from looking at a non-gravitational black ball based on Euclidean geometry. Also, the authors tried to provide a complete list that has been used throughout history to refer to the visual appearance of a vortex and related concepts and noted that despite different names and different physical formulations of the problem, all these concepts are highly intertwined. [2]. There will be vortices in space and falling into the vortex will lead to your exit from the visible world [1, 3]. Stars are huge balls of hydrogen and helium. Despite their almost identical composition, their final fate can be significantly different. The real action takes place inside a star at its core, where conditions are so intense that atomic nuclei fuse together to form heavier nuclei, releasing energy. It supports the star against the loss of its own gravity, but eventually, the fuel runs out and the nuclear reactor in the star's core shuts down, and when the energy source runs out, the star may collapse under its own gravity.

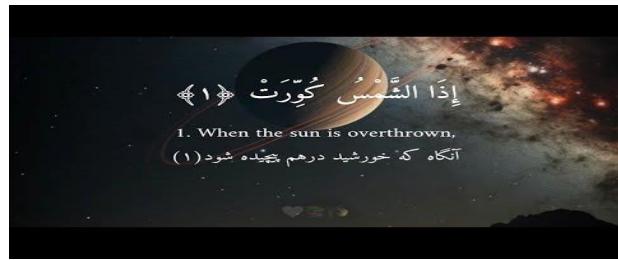
pour, as we will see. Since no light can pass through the vortex and come out the other side, this discovery confirms Albert Einstein's theory that massive objects such as black holes and neutron stars orbit space. This particular vortex, at a distance of 800 million light years from us, distorted the space so much that astronomers could see X-ray bursts flickering behind it [3, 6].

The figure below shows an image of a vortex with a corona (ball of white light) that is engulfing the material flowing in the vortex.



The darkening of the sun, moon, and stars from the perspective of the Quran and new science.

The closest star to Earth is the Sun. The sun, along with the planets and moons of the solar system, was born about five billion years ago, since then, it has continuously illuminated the earth with its light, which is the source of life. The sun is a huge sphere of hot gases, alone 745 times the mass of the planets of the system. Shamsi has about 99.8% of the total material of the solar system. Only the remaining 2% are nearby planets. The diameter of the Sun is 109 times that of the Earth, which is more than 300,000 times the diameter of the Earth. The sun's energy is produced in its very hot center, which has a temperature of 15 million degrees Celsius. It takes 4.6 billion years for the nuclear fuel to turn into energy in this furnace, and exactly this amount of its life remains. It takes five million years for the sun to expand and become hotter and hotter. Then the water of all the oceans will evaporate and life on earth will disappear. The earth also burns due to the intense heat of the sun and is completely destroyed. Over time, it is possible that the Earth will be swallowed by the outer layers of the Sun. The sun gradually shrinks and eventually turns into a white dwarf and hits the earth or becomes smaller than what we thought as seen in the figure below. [2,4,6]



According to the Quran, at the end of the world, the brightest source of light in our solar system, which is the source of light for all the planets, will shut down and gather, and other stars will suffer the same fate. This verse is considered one of the scientific miracles of the Quran. The Qur'an's interpretation of the darkening of the sun and the dimming of the stars, one of which is the sun, is completely correct. Today's scientists believe that the solar energy that spreads in space is obtained from nuclear combustion, the fuel of which is hydrogen and the ash of which is helium. For this reason, every day and night, three hundred and fifty thousand million tons of the weight of this sphere is reduced and it gradually becomes thin and dim. It is as if the balance of attraction and repulsion related to their "mass" and "speed of movement" has been confused, and perhaps this is what is stated in the Holy Qur'an as it says: At that time, the stars will scatter and fall" and he also says: )And the stars are like air ((Najm: 1) I swear by the star when it declines. And he also says: And when the stars become dim. And he says again: For the stars are dim ((Murslat/8) when the stars disappear and become dark. The following forms express the meaning of the above verses.



The image below is a brief description of the chaotic state of the system of existence that will prevail in the first stage of the Resurrection. The darkening of

the moon and the joining of it and the sun can also mean that the moon not only loses its light borrowed from the sun, but the sun itself also darkens and both Similarly, they become without light. [https://myislam.org/]. The gathering of the sun and the moon may be due to the loss of the balance of "attraction" and "repulsion" and the moon is attracted to the main center, which is the sun. We will end this speech by referring to other verses of the Holy Quran in this context, which says: (Qiyamat/7-10) (Say:) At that time, when the eyes turn around due to the intensity of fear, and the moon becomes dim, and the sun and the moon gather together, on that day, a person will say: "Where is the way to escape?".



Currently, all these issues are going on in the world, but gradually this will intensify at the end of the world, and with a number of quick and sudden events, this system will collapse and come to an end [https://quran].com/].

## CONCLUSION

The findings show that stars evolve during their lifetime and one of the types of death of stars is turning into a vortex and a black hole that forms after the death of big stars. Space bends its surroundings to such an extent that a vortex or a black hole appears. The Holy Qur'an also mentions the coming together of the sun, the

intermingling of the sun and the moon, the disappearance of the light of both, and the scattering and collapsing of the stars on the Day of Resurrection. Even today, this phenomenon has occurred one after another and confirms these statements.

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