

# Why are black holes are not dangerous?

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The efforts of various media as well as artistic and fantastic literature, black holes acquired the image of very dangerous space objects, which allegedly absorb everything in their path and can suddenly absorb the land. Will you figure it out?

Black holes are objects with a huge mass, and therefore strongly attracting other bodies. And indeed, if any rather large black hole pulled the land or any other planet or even a star, it would "absorb it." Nevertheless, black holes do not at all represent any enhanced danger to humanity. There are two reasons for it:

First, a collision with any space object, even a significantly smaller mass than a black hole, such as a major asteroid, another planet, its satellite, or a star, can also lead to the complete disappearance of life on Earth. Therefore, there are no special reasons for individuals to be afraid of the meeting precisely with a black hole (after all, it is not so important, "sank" the black hole in singularity, or it burns inside another star). Thus, if you are afraid, then any cosmic meeting.

The second reason is even more important. The meeting is exactly with a black hole, for the Earth, the least probably, of all possible space meetings. The fact is that black holes, as already mentioned, very massive objects. By weight they are comparable or more stars. Objects of such a mass cannot sneak imperceptibly, they will first act for a long time to act on the external object with their gravity, changing the type of its movement. Such a "sample" as a result can last millions of years before the black hole will take for "suction". And at the moment, no one interferes with the calm and uniform rotation of the Earth around the Sun, i.e. Nobody sneaks to us.

Thus, the main thing is that it is necessary to understand about black holes in the aspect of their danger for the Earth, so this is what such massive objects like black holes, do not wander in space, they, on the contrary, form the laws of movement of the rest of the bodies using their colossal attraction. As a result, it turns out that these are the rest of the bodies, as if "wandering" around black holes. So, for example, in the center of our galaxy "Milky Way" there is just a huge black hole around which everything is spinning.

It is also important to note that the rest of the bodies do not quite "wander", but move in accordance with the fundamental laws of nature, according to specific well-established orbits. Our galaxy is no longer a young one, and in it movement is already established. This means that all the bodies have already formed due to the mutual attraction of some common picture of the movement, in which there is its place for each, and the collisions of large objects do not actually occur.

All that was supposed to encounter was already faced, everything that had to be absorbed by black holes was already absorbed, and the rest of large bodies, such as stars and black holes spinning each other in a sustainable dance.

That is why we least threaten the collision with a black hole or another star. But with small objects like asteroids, the collision is possible. Its that you need to fear, and the methods of such a threat and need to develop. Fortunately, many scientists are engaged in this. In this aspect, the main thing primarily monitoring asteroids. It is actively and carefully. Methods for changing the trajectories of dangerous asteroids are also being developed. Humanity should achieve significant success in the coming decades in this way.