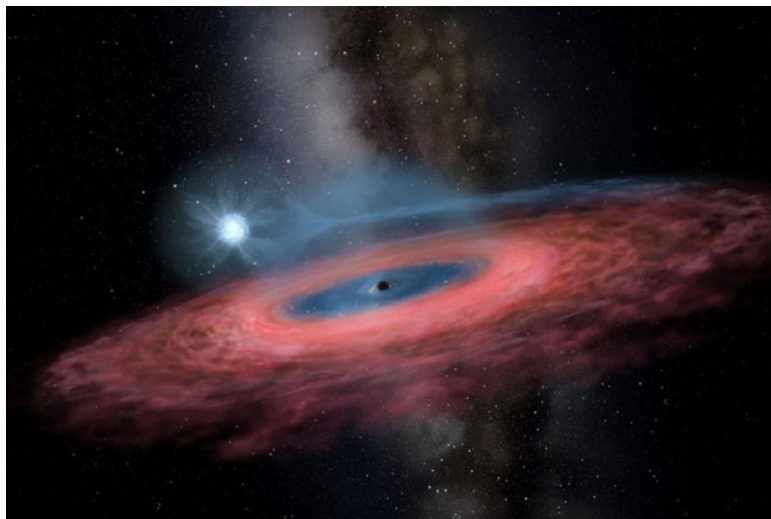


# The discovery of a giant black hole, 70 times the mass of the Sun in the Milky Way, challenges every theory

The existence of this giant black hole shocked researchers because it contradicted previous cosmological theories.

Scientists at the China National Astronomical Observatory have discovered a black hole with the mass 70 times more massive than the Sun in the Milky Way. This black hole was named LB-1, its existence shocked researchers by contradictory previous cosmological theories.

Researcher Liu Jifeng said he and his colleagues spent three years verifying with astronomers around the world before publishing their findings.

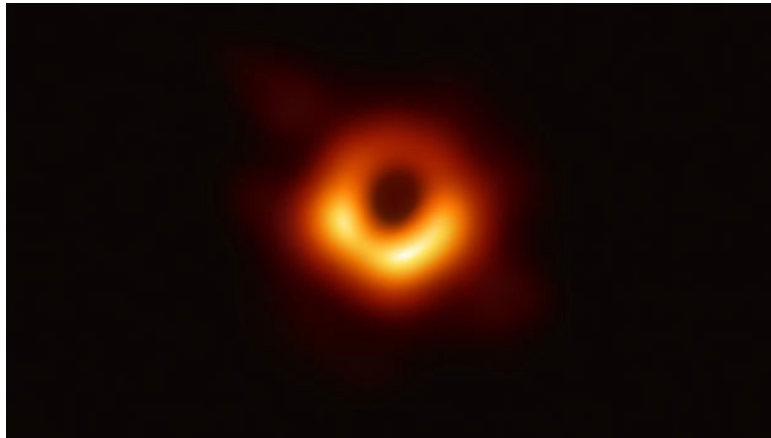


The existence of LB-1 black holes challenges every theory of the evolution of stars. Photo: AFP.

According to current astronomical theory, stars in space are made up of gas and heavy metals. The thermonuclear reaction that takes place inside their cores will cause light particles to combine to form heavier particles and release enormous energy.

But according to Einstein's famous formula  $E = mc^2$ , when matter converts into energy, the mass of a star decreases. Over billions of years, the star's energy will gradually fade, at some point collapsing under its own mass and becoming a black hole.

In theory, a giant black hole like LB-1 cannot exist in the Milky Way. The existence of LB-1 indicates a gap in the theory of the evolution of stars and the formation of black holes. This certainly makes astronomers rethink.



Currently, the secrets of black holes still cause scientists headaches. Photo: Science Daily.

Expert Liu Jifeng said that LB-1 is twice as big as what he and his colleagues calculated. Explaining its formation will be a major challenge for astronomers.

The LB-1 black hole was discovered by the world's largest galactic scanning telescope system (including 4,000 small glasses), located in Hebei province. Each glass in this telescope system can focus on a specific target in the sky.

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