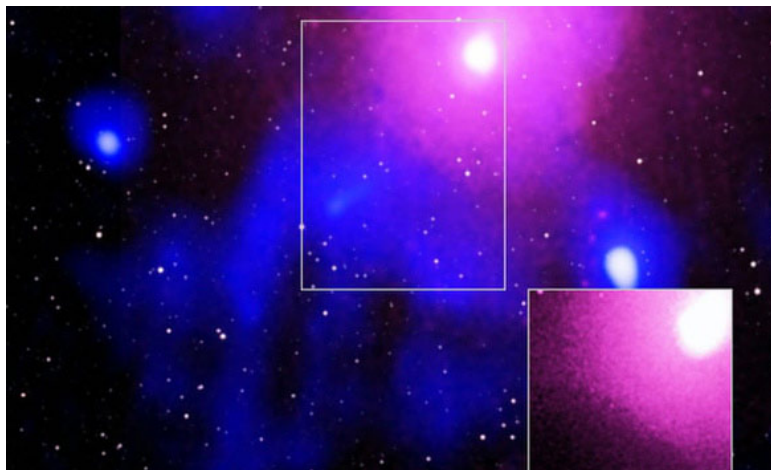


The largest-ever explosion in the universe created a giant hot-air sphere that could hold 15 Milky Way galaxies

On February 27, 2020, astronomers at the Center released the announcement of the most powerful explosion recorded in the history of the universe since the Big Bang. The explosion comes from a supermassive black hole at the center of a galaxy in the Ophiuchus cluster, 390 million light-years from Earth.

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Since 2016, the Chandra X-Ray telescope has captured an unusual "curved edge" image at the Ophiuchus cluster. But back then, scientists ruled out the possibility of a massive hot gas explosion. After collecting and comparing data from four observatories, scientists finally determined it was the largest ever explosion.



Supermassive black hole explosion in the galaxy cluster of Ophiuchus. Photo: CNN.

In the *Astrophysical Journal* published on February 27, astronomers stated that this was the most powerful explosion ever recorded in the history of the universe since the Big Bang. . The energy generated by the newly discovered explosion is so large that it creates a hot sphere that can contain 15 Milky Way bands, five times more than MS 0735 + 74, which was once known as the largest and most massive explosion. most intense in the universe.



The Chandra X-Ray telescope was launched into space in the second half of 1999.

To make observations of this massive explosion, the scientists used telescopes on the ground and in space including the European Space Agency's XMM-Newton X-ray observatory, the radio observing NASA's Chandra X-ray, the Giant Metrewave radio telescope in India, the Murchison Widefield Array telescope in Australia.

Scientists have combined data of X-rays and radio wavelengths of the ground telescope system to confirm the existence of the flaw.

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