

# Largest black hole compared to solar system

I hate to break it to you, but that's not the largest black hole known. It's up there for sure at 40 billion solar masses, but the Phoenix A black hole is thought to be 100 billion solar masses, with a diameter of nearly 600 billion kilometers.

S5 0014+81, The largest known supermassive black hole compared to our solar system. Not really to scale Archived post. New comments cannot be posted and votes cannot be cast. ... Edit: the black hole in the OP is twice the size as the largest in the video. Video says 20 billion suns and wiki says 40 billion suns.

Black Holes; The Big Bang; Dark Matter & Dark Energy; The Solar System . The Sun; ... or width - at the equator of each planet. Each planet's width is compared to Earth's equatorial diameter, which is about 7,926 miles (12,756 kilometers). ... Mars, the red planet, is the seventh largest planet in our solar system. Mars is about half ...

At its center lies a supermassive black hole, over 66 billion times the mass of our Sun, surrounded by a swirling disk of gas and dust. Its intense gravitational pull draws matter in at an astonishing rate, unleashing a torrent of energy that illuminates the cosmos with a brilliance 140 times greater than that of the Milky Way.

The mass of the Phoenix A black hole is estimated to be around 100 billion solar masses, making it one of the the biggest black hole in the universe. Its size, or event horizon radius, is believed to be several times the diameter of our solar system.

According to NASA, the mass of a black hole is usually called a "solar mass." One solar mass is defined as the mass of our sun. Supersized black holes. This is the universe's way of supersizing. ... Watch this video to see how they compare to each other and to our solar system. The black holes shown, which range from 100,000 to more than 60 ...

An artistic illustration of the Phoenix Cluster with its nucleus. When Was Phoenix A Black Hole Discovered? The Phoenix Cluster (at the heart of which the Phoenix A\* black hole exists) was initially detected in 2010 by R. Williamson and his colleagues during a survey by the South Pole Telescope collaboration in Antarctica.. It was detected in a survey done in the southern sky at ...

The black hole is said to have a mass of 40 billion solar masses, if replacing 1 solar mass with the mass of a beach ball (assuming the weight to be roughly 100g or about 0,22 pounds), 40 billion times that much would be similar to the mass of that building.

These relatively small black holes can also be made through the merger of two dense stellar remnants called

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neutron stars. A neutron star can also merge with a black hole to make a bigger black hole, or two black holes can collide. Mergers like these also make black holes quickly, and produce ripples in space-time called gravitational waves.

All monster black holes are not equal. Watch this video to see how they compare to each other and to our solar system. The black holes shown, which range from 100,000 to more than 60 billion times our Sun's mass, are scaled according to the sizes of their shadows - a circular zone about twice the size of their event horizons. Only one of these colossal objects ...

The new NASA animation shows 10 supersized black holes that occupy center stage in their host galaxies, including the Milky Way and M87, scaled by the sizes of their shadows. Starting near the Sun, the camera steadily pulls back to compare ever-larger black ...

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