

There is a hole in the middle of the solar glass

What is the supermassive black hole in the Milky Way?

The supermassive black hole in our Milky Way weighs about 4.3 million solar masses, equal to 1.4 trillion Earths. This 2011 image from the Hubble Space Telescope shows the center of the Milky Way toward the constellation of Sagittarius. The supermassive black hole known as Sagittarius A* or SGR-A* lurks in the middle, unseen. Credit: NASA

Is there a black hole at the center of the Milky Way?

The power of multiple telescopes around the world was combined to capture the first image of the black hole at the center of our Milky Way, Sagittarius A*. Full image and caption. Our home galaxy, the Milky Way, has a supermassive black hole at its center, but we've never actually seen it - until now.

Is there a black hole in the center of Our Star?

So, no, there is probably not a black hole in the center of our star -- but there might be other stars gallivanting through space with black holes indeed wedged within their hearts. Related: We still don't know what dark matter is, but here's what it's not Breaking space news, the latest updates on rocket launches, skywatching events and more!

Are stars accreted by a central black hole?

Much of the theory of accretion of stars with central black holes was developed for 'quasi-stars,' star-like objects of many thousands of solar masses that may have existed in the early universe powered by accretion onto a central black hole (Begelman et al, 2008; Ball et al, 2011, 2012).

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While there's no need to fear that the black hole at the center of our galaxy will expand and consume everything, we can track rogue black holes as they move through the universe.

An artist's illustration showing two smaller black holes within the gas surrounding a larger black hole. Could a black hole stuck inside the sun be engulfed by the ball of plasma in a similar way?

However, there is theoretical uncertainty about how and whether the Solar System could capture a PBH, let alone whether they exist at all. Figure 2: A plot showing the overall precession of ...

How Sagittarius A* was found lurking in the center of the Milky Way The supermassive black hole in our Milky Way weighs about 4.3 million solar masses, equal to 1.4 trillion Earths.

Our home galaxy, the Milky Way, has a supermassive black hole at its center, but we've never actually seen it - until now. The Event Horizon Telescope, funded by the National Science ...

In May 2022, astronomers took the first ever photograph of a monster in our own backyard: a supermassive

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black hole, four million times as massive as the Sun, lurking right in the ...

These low-mass black holes would emit Hawking radiation, contributing to the star's radiation pressure. Is there a way we could know if there's a black hole inside the Sun?

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Key Takeaways on the Middle of the Milky Way The supermassive black hole named Sagittarius A* lies in the middle of the Milky Way. Observations of S2 and other stars also helped ...

The sun's magnetic field wreaks havoc on the solar atmosphere. At times the magnetic field lines that rise and fall from the surface in giant arcs can become detached at one end. When ...

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