

# Is UY Scuti bigger than our solar system

UY Scuti is the largest star in the Universe observed so far. The red supergiant is 1,708 times wider than our Sun, with a radius of 1.2 billion km (738 million miles). The star can be found around 9,500 light-years away from Earth in the Scutum ...

UY Scuti holds the title of one of the largest known stars, with a radius 1,708 to 2,100 times larger than the Sun. UY Scuti has a mass 20-40 times greater than the Sun. UY Scuti's immense distance makes it appear dim from Earth despite its enormous size.

Inside Jupiter's Great Red Spot: The largest storm in the Solar System. Characteristics. UY Scuti is 340,000 times more luminous than the Sun. This means that the total energy output of this star is 340,000 times greater than our star. However, its surface temperature is about 3,300 K, roughly half the value for Sun.

As a hypergiant star, UY Scuti's immense size is almost incomprehensible, with a radius about 1,700 times larger than that of our Sun. This means if UY Scuti were placed at the center of our solar ...

UY Scuti (BD-12 5055), a previous record-holder, was thought to have a radius of 1,708 solar radii based on an assumed distance of 9,500 light-years. With this radius, if the red supergiant star replaced the Sun at the center of our solar system, its photosphere would extend past the orbit of ...

Regardless, UY Scuti is still one of the biggest known stars and if UY Scuti were placed in the Solar System, replacing our sun, its photosphere would reach the orbit of Saturn. To get a better sense of the scale of UY Scuti, ...

Mercury, Venus, Earth, Mars, and Jupiter would be engulfed by UY Scuti's enormous size, likely impacting the orbits of other planets in our solar system. Will Kalif is an amateur astronomer at TelescopeNerd .

UY Scuti holds the prestigious title of the largest known star, a red supergiant star that dwarfs even the most luminous stars in our night sky. As a hypergiant star, UY Scuti's ...

The Sun's diameter is about 10x the diameter of Jupiter: What most people don't realize is how empty our Solar System is. When we speak about Mercury, most people imagine a planet ...

Even in our own solar system, we are ... Perhaps the biggest star known is UY Scuti, which could fit more than 1,700 of our suns. (Some estimates for the size of UY Scuti put it lower on the list ...

This discovery was quite overwhelming, and for a period of time UY Scuti held the title of the biggest known star in the Milky Way. Its size surpassed previous records held by other large stars such as Betelgeuse, VY Canis Major, and NML Cygni. UY Scuti is a red supergiant star, which is usually an aging star.



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UY Scuti vs The Sun Size comparison between UY Scuti and the sun. The best way to get an idea of how big UY Scuti is, is to compare it to the closest star to our planet, the sun. The sun has a radius of 432,450 miles (695,500 kilometres), and UY Scuti has a radius 1,700 times larger than the sun's. This means that UY Scuti has a radius of 0. ...

While the Sun is the largest object in our solar system, it's not a particularly large star. ... Giants and Supergiants all have larger radii than the Sun. ... UY Scuti is also a pulsating semi-regular variable star whose magnitude varies from 11.2 to 13.3 over a period of 740.0 days. Its mass is 23.0 solar masses and it's 47% cooler than ...

With a radius of 909 solar radii, UY Scuti is still a behemoth compared to many other red supergiants and giants, ... With an estimated mass between 7 and 10 times the mass of our Sun, UY Scuti is massive enough to end its life as a fiery supernova. ... The star can be observed in a 4-inch or larger telescope in good conditions. The open ...

Regardless, UY Scuti is still one of the biggest known stars and if UY Scuti were placed in the Solar System, replacing our sun, its photosphere would reach the orbit of Saturn. To get a better sense of the scale of UY Scuti, more than 4 quadrillion Earth's could fit into it.

The star can range anywhere from 1500 solar radii to 1900 solar radii at a given time. On average, UY Scuti's radius alone is 735,564,500 miles (1,183,776,300 kilometers). ... VY Canis Majoris can be larger than UY Scuti, but UY Scuti is the larger star on average. ... They are well over a thousand times larger than our Sun, with brightnesses ...

With a radius 909 times that of the Sun, UY Scuti is one of the largest stars known in the Milky Way. If the supergiant were placed at the centre of the solar system, its photosphere would swallow the planets Mercury, ...

The biggest of these stars, sometimes called hypergiants, can swell to more than 1,000 times the size of the Sun. But UY Scuti, located near the center of the Milky Way in the constellation Scutum ...

Scientists have begun to classify UY Scuti as a hypergiant star, which means it is more massive than a supergiant. While UY Scuti may be the brightest, it actually is not the most massive. UY Scuti is around 30 times the mass of the Sun, but there are other stars that measure in around 265 times larger than the mass of our Sun. UY Scuti is the ...

While UY Scuti is the largest star in the universe and it's incredibly luminous, it doesn't appear that way from Earth due to its sheer distance (9,500 light years away). So with a low-mid powered telescope, such as the NexStar 4SE on ...

Not only that, but the UY Scuti's gravity would gobble up the larger planet and distant planetoids of our solar



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system like an interstellar Pac-Man, and whatever remained unconsumed would take ...

Antares and Betelgeuse may be colossal stars, but we take it to the next level of stellar monstrosity with a visit to UY Scuti, a star that makes our Sun seem no bigger than a pinpoint. This illustration shows the approximate size of the red supergiant UY Scuti compared to the Sun. Philip Park / CC BY-SA 3.0

Our solar system is just one small part of the Milky Way galaxy. In fact, there are billions of stars in our galaxy alone! ... Are There Stars Bigger Than The Solar System? Yes, there are stars that are much bigger than the solar system. The largest known star in the universe, UY Scuti, has a radius that is around 1,700 times larger than the ...

According to estimations, UY Scuti has a radius of 1,708 solar radius and thus 5 billion times bigger than the Sun. Read: 15 Closest Stars To Earth Just for the sake of simplicity, based on the above numbers if this supergiant is somehow placed at the center of our solar system, then its outer atmosphere would most probably engulf the orbit of ...

However, we have the largest star in the universe that we know for now. That can change with a new discovery, but UY Scuti is the largest star we know, way bigger than our Sun. It's a red supergiant with a size about 1,700 times bigger than our Sun. If we put UY Scuti in our solar system, it would go past Jupiter's orbit. That's huge!

The universe is known to have billions of stars most of which are much bigger than the sun that we have in our solar system. UY Scuti is the current record holder, given that more massive stellar ...

TON-618's black hole is 220 million times more massive than UY Scuti. ... TON 618, a behemoth quasar in the distant universe, dwarfs our solar system. Its shadow engulfs our entire solar system 200 times over. ... TON 618 is about 11 times larger than the entire solar system. Its diameter spans approximately 1,220 AU or 114 billion miles ...

The largest known star is UY Scuti, a hypergiant with a radius somewhere around 1,700 times larger than the sun. Its mass, however, is only 30 times that of our nearest star. Its mass, however, is ...

In 1860, German astronomers at the Bonn Observatory first cataloged UY Scuti, at the time naming it BD -12 5055, reported Astronomy Magazine. During a second observation, astronomers realized it grows brighter and dimmer over a 740-day period, leading to its classification as a variable star. Where is UY Scuti?

This star is now known to be even bigger than UY Scuti, which used to hold the record for the largest star. Size and Volume. Stephenson 2-18 is incredibly huge! Imagine a star with a radius about 2,150 times bigger than our Sun. If it were placed in our solar system, its outer layer, called the photosphere, would stretch beyond the orbit of Saturn.



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