

**ASTRONOMERS MEASURE MASS OF A SINGLE STAR —  
FIRST SINCE THE SUN**

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**Measuring Stellar Masses | Astronomy**

For the first time, astronomers have measured the mass of a star by observing in the sky as their light passed through the sun's gravitational field. Most stars in the universe are destined to become white dwarfs one day.

## **Astronomy college course/Star (Wikipedia) - Wikiversity**

Measuring the mass of objects in the universe, including stars, is a hands-off project. It is one of the largest and most massive stars measured by astronomers. First, they measure the orbits of all the stars in the system. Lesser-mass stars, such as the Sun, are cooler than their gigantic siblings.

## **For the First Time, Astronomers Measure the Mass of a Star Using General Relativity - D-brief**

ASTRONOMERS MEASURE MASS OF A SINGLE STAR -- FIRST SINCE THE SUN  
Astronomers have directly measured the mass of a single star -- the first time.

## **How to Determine the Mass of a Star**

Masses of binary stars can be calculated from measurements of their orbits, just as the first evidence that gravitational influences exist outside the solar system. Not only were there two lines where astronomers normally saw only one, but.

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But this was more than just a skillful demonstration of a new technique. Until the s, we could only detect planets in our own solar system, but now we have thousands of them elsewhere as .

In the hottest stars, most of the hydrogen is ionized; the electrons are stripped off. The remaining core can form a neutron star, a compact object that can come in a variety of forms. But if the body has sufficient mass, the collapsing gas and dust burns hotter, eventually reaching temperatures sufficient to fuse hydrogen into helium.

The red star first caught astronomers' attention when its orbit crossed paths with the open cluster. From this observation, we can conclude that open clusters are young, usually a few tens of millions or hundreds of millions of years old, while globular clusters are very old, typically about a billion years old.