



First-Ever Close-Up View of Star Beyond Galaxy: Scientists Unveil Discovery

Description

A star that is more than 160,000 light-years away from Earth is now the focus of the first picture ever taken of a star in another galaxy.

It's known as WOH G64 and is a giant red star in a small galaxy called the Large Magellanic Cloud that orbits our Milky Way. It's so huge that it's nicknamed "The Monster" or "The Behemoth," with a size almost 2,000 times bigger than the Sun.

Scientists used a powerful telescope to capture a close-up of this large star. They found a strange bubble shape around WOH G64, which may be linked to the star losing material before it explodes.

The researchers noticed that the star has been getting dimmer over the past decade, possibly due to the material it's losing blocking its light. This discovery is a rare chance to observe a star's changes in real-time.

This new information could help us understand more about how massive stars like WOH G64 reach the end of their lives.

Vocabulary List:

1. **Galaxy** /'gæl.ə.ksi/ (noun): A vast system of stars gas and dust held together by gravity.
2. **Huge** /hju:dʒ/ (adjective): Extremely large in size quantity or degree.
3. **Material** /mə'tɪr.i.əl/ (noun): The substance or matter from which something is made.
4. **Explodes** /ɪk'spləʊdʒ/ (verb): To burst or break apart suddenly and violently.
5. **Dimmer** /'dɪm.ər/ (adjective): Less bright or clear.
6. **Discoveries** /dɪ'skʌv.ər.ɪz/ (noun): The acts of finding or learning something for the first time.

Comprehension Questions

Multiple Choice

1. How far away is the star WOH G64 from Earth?

Option: 160,000 light-years



- Option: 100,000 light-years
- Option: 200,000 light-years
- Option: 300,000 light-years

2. What is another nickname for the star WOH G64?

- Option: The Monster
- Option: The Behemoth
- Option: The Giant
- Option: The Titan

3. What is the name of the galaxy where WOH G64 is located?

- Option: Large Magellanic Cloud
- Option: Andromeda Galaxy
- Option: Whirlpool Galaxy
- Option: Sombrero Galaxy

4. Why is WOH G64 getting dimmer according to researchers?

- Option: Material it's losing blocking its light
- Option: Closer proximity to Earth
- Option: Increased nuclear fusion
- Option: Alien intervention

5. What did scientists find around WOH G64 when they captured a close-up image of it?

- Option: A strange bubble shape
- Option: Satellites orbiting it
- Option: A black hole
- Option: A planetary system

6. What could the new information about WOH G64 help scientists understand?

- Option: How massive stars reach the end of their lives
- Option: How galaxies form
- Option: The origin of the universe
- Option: Time travel possibilities

True-False

7. WOH G64 is the first star ever photographed in another galaxy.



8. The Large Magellanic Cloud orbits the Andromeda Galaxy.
9. The strange bubble shape around WOH G64 may be related to its impending explosion.
10. The star WOH G64 has been getting brighter over the past decade.
11. Scientists used a weak telescope to capture the image of WOH G64.
12. The nickname "The Behemoth" for WOH G64 refers to its tiny size compared to the Sun.

Gap-Fill

13. WOH G64 is almost _____ times bigger than the Sun.
14. The material WOH G64 is losing may be blocking its light, causing it to appear _____.
15. The star WOH G64 has been observed getting dimmer over the past _____.
16. The bubble shape around WOH G64 could be linked to the star losing material before it _____.
17. The discovery of WOH G64 is a rare chance to observe a star's changes in _____.
18. Understanding stars like WOH G64 could provide insights into how massive stars reach the end of their _____.

Answer

Multiple Choice: 1. 160,000 light-years 2. The Monster 3. Large Magellanic Cloud 4. Material it's losing blocking its light 5. A strange bubble shape 6. How massive stars reach the end of their lives

True-False: 7. True 8. False 9. True 10. False 11. False 12. False

Gap-Fill: 13. 2,000 14. dimmer 15. decade 16. explodes 17. real-time 18. lives

Answer

CATEGORY

1. Health - LEVEL2

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