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# Stunning Einstein Ring Discovered: Astronomers in Awe!

## Description

Around a galaxy just 590 million light-years away, astronomers found a special light pattern called an Einstein ring.

This ring was seen around the galaxy NGC 6505 using data from the European Space Agency's Euclid space telescope. Although scientists have seen other rings before, this one is very perfect. It is very rare.

"An Einstein ring happens because of strong gravitational lensing," says astronomer Conor O'Riordan from Germany.

Gravitational lensing is when space bends around a large mass, like a galaxy. This bending of light helps scientists study objects that are far away in the universe.

The light in this new Einstein ring comes from another galaxy that is 4.42 billion light-years away. Its light is stretched into a ring shape as it passes through the bending space around NGC 6505.

This discovery is exciting because the nearby NGC 6505 was first seen in 1884, but this ring was not seen before. It shows that the Euclid telescope is very powerful and can find new things.

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## Vocabulary List:

1. **Galaxy** /'gæləksi/ (noun): A large system of stars gas and dust held together by gravity.
2. **Lensing** /'len.sɪŋ/ (noun): The bending of light caused by the gravitational field of a massive object.
3. **Astronomers** /ə'strɒn.ə.məz/ (noun): Scientists who study celestial bodies and the universe.
4. **Discovery** /dɪ'skʌv.ər.i/ (noun): The act of finding or learning something new.
5. **Stretched** /streɪtʃt/ (adjective): Extended or elongated in shape or form.
6. **Powerful** /'paʊəfəl/ (adjective): Having great strength or influence; very effective.

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. Which stage of sleep is characterized by rapid eye movement and dreaming?

Option: Stage 1

Option: Stage 2

Option: Stage 3



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Option: Stage 4

2. Who are scientists that study celestial objects such as stars planets and galaxies?

- Option: Biologists
- Option: Geologists
- Option: Physicists
- Option: Astronomers

3. What term is used to describe a decline in cognitive function that affects memory thinking and behavior?

- Option: Bacteria
- Option: Dementia
- Option: Virus
- Option: Fungi

4. What force attracts a body toward the center of the Earth?

- Option: Magnetism
- Option: Friction
- Option: Tension
- Option: Gravity

5. What are individual events and occurrences that a person goes through in their lifetime?

- Option: Solutions
- Option: Results
- Option: Experiences
- Option: Consequences

6. What cognitive process involves encoding storing and retrieving information?

- Option: Processing
- Option: Memory
- Option: Reasoning
- Option: Imagination

7. What term describes a gentle feeling of fondness or liking?

- Option: Hatred
- Option: Jealousy
- Option: Indifference
- Option: Affection

8. What is the body's response to pressure or threat?



- Option: Relaxation
- Option: Meditation
- Option: Stress
- Option: Joy

9. What is a huge system of stars gas and dust bound together by gravity?

- Option: Planet
- Option: Satellite
- Option: Comet
- Option: Galaxy

10. What compounds are often used as fertilizers to promote plant growth?

- Option: Nitrates
- Option: Phosphates
- Option: Sulfates
- Option: Chlorides

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. A \_\_\_\_\_ between two people can be strengthened through open communication.
12. In chemistry a mixture is composed of a solute and a \_\_\_\_\_.
13. Scientists conduct \_\_\_\_\_ to test hypotheses and theories.
14. The \_\_\_\_\_ between the Earth and the Sun is approximately 93 million miles.
15. Nuclear energy is a \_\_\_\_\_ source of electricity.
16. A smoke \_\_\_\_\_ can alert residents to the presence of a fire.
17. The magician performed a trick where the object seemed to \_\_\_\_\_ in mid-air.
18. The athlete \_\_\_\_\_ before starting the race to prevent muscle injuries.
19. The archeologists made a groundbreaking \_\_\_\_\_ in the ancient tomb.
20. The old mansion had a \_\_\_\_\_ atmosphere with creaking sounds coming from unknown sources.



**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. Establishing meaningful relationships and building professional networks are essential for personal growth.
22. Exercise and a balanced diet are crucial for maintaining a lifestyle.
23. After a long day I love to up with a good book and a warm blanket.
24. It is to listen actively in order to understand others better.
25. Trust and communication are key elements in a successful and lasting .
26. The Moon follows an around the Earth completing one cycle every 27.3 days.
27. Rubbing a balloon against a wool sweater can create electricity.
28. exercises help improve flexibility and prevent muscle stiffness.
29. A warm hug is a simple gesture that conveys love and .
30. A metal can identify the presence of metallic objects in luggage at airports.

**Answer**

**Multiple Choice:** 1. REM sleep 2. Astronomers 3. Dementia 4. Gravity 5. Experiences 6. Memory 7. Affection 8. Stress 9. Galaxy 10. Nitrates

**Gap-Fill:** 11. Connection 12. Solution 13. Experiment 14. Distance 15. Powerful 16. Detector 17. Levitates 18. Stretched 19. Discovery 20. Mysterious

**Matching sentence:** 1. Connections 2. Healthy 3. Cuddle 4. Important 5. Relationship 6. Orbit 7. Static 8. Stretching 9. Affection 10. Detector

**CATEGORY**

1. Health - LEVEL1

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**Author**

aimeeyoung99