

Giant Radio Galaxy: Home to 30 Milky Ways

Description

Giant radio galaxies are very big structures in space that can stretch for millions of light-years, making them some of the largest things we know about in the universe.

It's hard to find giant radio galaxies, even though they are so huge. But astronomers using the MeerKAT telescope in South Africa recently discovered a very big and strange one.

This new galaxy is over 3 million light-years long, with huge jets shooting hot plasma into space. It's more than 30 times bigger than our Milky Way galaxy.

The galaxy is called "Inkathazo," which means "trouble" in languages from Southern Africa. It's puzzling because its plasma jets are bent and it's growing in a crowded galaxy cluster where it shouldn't be able to get so big.

Scientists are using advanced tools to study Inkathazo's strange features and learn more about how it's evolving in its unique environment.

Discoveries like Inkathazo are helping us understand more about these giant radio galaxies and the mysteries of the universe.

The study about Inkathazo was published in the Monthly Notices of the Royal Astronomical Society.

Vocabulary List:

- 1. **Astronomers** /ə'strp.nə.məz/ (noun): Scientists who study celestial bodies and the universe.
- 2. Galaxy /ˈgæl.ə.ksi/ (noun): A large system of stars gas and dust bound together by gravity.
- 3. Plasma /'plæz.mə/ (noun): A state of matter consisting of ionized gas; a collection of charged particles.
- 4. Evolving /ɪ'vplv.ɪŋ/ (verb): Developing gradually especially from a simple to a more complex form.
- 5. **Puzzling** /'pʌz.lɪŋ/ (adjective): Causing confusion or difficulty in understanding.
- 6. Discoveries /dɪsˈkʌv.ər.iz/ (noun): The act of finding or learning something for the first time.

Comprehension Questions



Multiple Choice

1. What are giant radio galaxies?

Option: Very small structures in space

Option: Structures that can stretch for millions of light-years

Option: Objects found only in the Milky Way galaxy

Option: Unidentified flying objects

2. How big is the new galaxy discovered by astronomers?

Option: Over 1 million light-years long Option: Over 2 million light-years long Option: Over 3 million light-years long Option: Over 4 million light-years long

3. What does "Inkathazo" mean in languages from Southern Africa? NEWS.COM

Option: Peace Option: Trouble Option: Beauty Option: Harmony

4. What is puzzling about the galaxy "Inkathazo"?

Option: Its small size

Option: Its location in space Option: The straight plasma jets Option: The bent plasma jets

5. Where did astronomers use the MeerKAT telescope to discover the new galaxy?

Option: United States Option: South Africa Option: Australia Option: China

6. What is the new galaxy "Inkathazo" growing in?

Option: Isolation

Option: A crowded galaxy cluster

Option: A black hole Option: Empty space



True-False

- 7. Giant radio galaxies are small structures in space.
- 8. Astronomers discovered Inkathazo using the Hubble Space Telescope.
- 9. The plasma jets of Inkathazo are straight.
- 10. Inkathazo is more than 30 times bigger than the Milky Way galaxy.
- 11. The study about Inkathazo was published in the Journal of Medical Science.
- 12. Inkathazo is not evolving in its unique environment.

Gap-Fill

Gap-Fill	
13. Inkathazo is over	million light-years long.
14. The galaxy "Inkathazo" means "	" in languages from Southern Africa.
15. Scientists are using advanced tools to stud	dy Inkathazo's features.
16. Inkathazo is growing in a crowded galaxy c	cluster where it shouldn't be able to get so
·	
17. Giant radio galaxies are some of the larges	est things we know about in the
18. Inkathazo's plasma jets are	, adding to the puzzling nature of the galaxy.

Answer

Multiple Choice: 1. Structures that can stretch for millions of light-years 2. Over 3 million light-years long 3. Trouble 4. The bent plasma jets 5. South Africa 6. A crowded galaxy cluster

True-False: 7. False 8. False 9. False 10. True 11. False 12. False Gap-Fill: 13. 3 14. trouble 15. strange 16. big 17. universe 18. bent



Vocabulary quizzes

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

1. What are the structures that contain genetic information in a cell?

Option: Proteins

Option: Chromosomes

Option: Enzymes Option: Lipids

2. Which term refers to planets that orbit stars outside our solar system?

Option: Galaxy Option: Exoplanets Option: Plasma

Option: Cephalopods

3. What term describes the variety of different species in an ecosystem? ESL-NEWS

Option: Predators Option: Complex Option: Diversity

Option: Intermuscular

4. What is the body's response to injury or infection characterized by redness and swelling?

Option: Symptoms Option: Inflammation Option: Resistance Option: Ecosystem

5. What term refers to new findings or revelations?

Option: Discoveries Option: Astronomers Option: Solar Systems Option: Researchers

6. Which term describes something from a long time ago?

Option: Evolved Option: Ancient Option: Puzzling Option: Plasma

7. What term describes the gradual development or change of something over time?



Option: Astronomers Option: Galaxy Option: Evolved Option: Ecosystem		
8. Who are the individuals who conduct experiment Option: Paleontologists Option: Galaxy Option: Plasma Option: Researchers	ts and studies to advance knowledge in a p	oarticular field?
9. What is the ability to withstand or oppose somet Option: Inflammation Option: Symptoms Option: Resistance Option: Evolving		
10. Which term refers to animals that hunt and fee Option: Intermuscular Option: Discover Option: Predators Option: Plasma Gap-Fill (Fill in the blanks with the correct was a second or		
11. A collection of an organism's complete set of _	is called a genome	·.
12. Patients should report any unusual	to their healthcare provider.	
13. Scientists make careful	to collect data for their research.	
14. Technology is constantly	to meet the changing needs of society.	
15. The study results were	_ in a scientific journal.	
16. The mysterious disappearance of the artifact le	eft archaeologists	over its
whereabouts.		
17. Squid and octopus are examples of	·	



Answer

Multiple Choice: 1. Chromosomes 2. Exoplanets 3. Diversity 4. Inflammation 5. Discoveries 6. Ancient 7. Evolved 8. Researchers 9. Resistance 10. Predators

Gap-Fill: 11. Genomes 12. Symptoms 13. Observations 14. Evolving 15. Published 16. Puzzling 17. Cephalopods 18. Plasma 19. Solar Systems 20. Astronomers

Matching sentence: 1. Intermuscular 2. Discover 3. Astronomers 4. Galaxy 5. Ecosystem 6. Paleontologists 7. Diversity 8. Complex 9. Insights 10. Plasma

CATEGORY

1. Health - LEVEL2

Date Created

2025/01/31



Author

aimeeyoung99

