

Solar system galaxy cluster supercluster





Overview

The existence of superclusters indicates that the galaxies in the Universe are not uniformly distributed; most of them are drawn together in groups and clusters, with groups containing up to some dozens of galaxies and clusters up to several thousand galaxies. Those groups and clusters and additional isolated galaxies.

A supercluster is a large group of smaller or ; they are among the largest known structures in the . The is part of the galaxy group (which contains more than 54 galaxies), which.

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The Laniakea Supercluster encompasses approximately 100,000 galaxies stretched out over 160 (520 million). It has the approximate mass of 10 solar masses, or 100,000 times that of our galaxy, which is almost the same as that of the . It consists of four subparts, which were known previously as separate superclusters: • , the part in which the Milky Way resides.

What is a supercluster Galaxy?

A supercluster is a large group of smaller galaxy clusters or galaxy groups; they are among the largest known structures in the universe.

What is a cluster of galaxies called?

Small aggregates of galaxies are referred to as galaxy groups rather than clusters of galaxies. The galaxy groups and clusters can themselves cluster together to form superclusters. Notable galaxy clusters in the relatively nearby Universe include the Virgo Cluster, Fornax Cluster, Hercules Cluster, and the Coma Cluster.

Which Supercluster resides in the Milky Way?

Virgo Supercluster, the part in which the Milky Way resides. Southern Supercluster, including Fornax Cluster (S373), Dorado and Eridanus clouds.



The most massive galaxy clusters of the Laniakea Supercluster are Virgo, Hydra, Centaurus, Abell 3565, Abell 3574, Abell 3521, Fornax, Eridanus, and Norma.

What does the existence of superclusters mean?

The existence of superclusters indicates that the galaxies in the Universe are not uniformly distributed; most of them are drawn together in groups and clusters, with groups containing up to some dozens of galaxies and clusters up to several thousand galaxies.

What galaxy clusters are in the Laniakea Supercluster?

Southern Supercluster, including Fornax Cluster (S373), Dorado and Eridanus clouds. The most massive galaxy clusters of the Laniakea Supercluster are Virgo, Hydra, Centaurus, Abell 3565, Abell 3574, Abell 3521, Fornax, Eridanus, and Norma. The entire supercluster consists of approximately 300 to 500 known galaxy clusters and groups.

Are superclusters interconnected?

Superclusters are among the largest structures in the known universe. They are made up of groups, like our own Local Group, that contain dozens of galaxies and massive clusters that contain hundreds of galaxies, all interconnected in a web of filaments. Though these structures are interconnected, they have poorly defined boundaries.



Solar system galaxy cluster supercluster



This is the most detailed map yet of our place in the universe

Vox is a general interest news site for the 21st century. Its mission: to help everyone understand our complicated world, so that we can all help shape it. In text, video and audio, our reporters

Laniakea Supercluster

Overview
Characteristics
Name
Location
See also
Further reading
External links

The Laniakea Supercluster encompasses approximately 100,000 galaxies stretched out over 160 Mpc (520 million ly). It has the approximate mass of 10 solar masses, or 100,000 times that of our galaxy, which is almost the same as that of the Horologium Supercluster. It consists of four subparts, which were known previously as separate superclusters: o Virgo Supercluster, the part in which the Milky Way resides.



NOVA Online , Runaway Universe , Galaxies, Clusters, and

5 ???· The enormous gravity of the Virgo Cluster makes it the center of a larger structure, called the Local Supercluster. This collection of nearly 100 clusters, and thousands of galaxies, stretches



Newly identified galactic supercluster is home to the ...



Astronomers using the National Science Foundation's Green Bank Telescope (GBT), among others, have determined that our Milky Way Galaxy is part of a newly identified ginormous supercluster of



What is the order from largest to smallest: galaxy, universe

From largest to smallest they are: Universe, galaxy, solar system, star, planet, moon and asteroid. Let's describe them from smallest to largest. In fact the size order is not exact as there are exceptions. An asteroid is a rocky body which lies in the asteroid belt between Mars and Jupiter. They are typically quite small object. The largest asteroid Ceres has been ...



Phoenix Cluster

The Phoenix Cluster (SPT-CL J2344-4243) is a massive, Abell class type I galaxy cluster located at its namesake, southern constellation of Phoenix was initially detected in 2010 during a 2,500 square degree survey of the southern sky using the Sunyaev-Zeldovich effect by the South Pole Telescope collaboration. [5]



Meet the BOSS, the Largest Structure in the Universe (So Far)

It also dwarfs both the CfA2 Wall discovered in 1989 and the Laniakea supercluster--the neighborhood where our own Milky Way resides. Not everyone is convinced that the BOSS is truly the biggest





Your Cosmic Address Will Remind You How Huge the ...

It takes 365.25 days for Earth to orbit the sun from 92 million miles out -- that's one astronomical unit (AU), which is how distance is measured in the Solar System. Solar System



Which of the following has your "cosmic address" in the correct ...

Which of the following has your "cosmic address" in the correct order a.) you, Earth, solar system, Milky Way galaxy, local group, local supercluster, universe. b

Local Group

Distribution of the iron content (in logarithmic scale) in four neighbouring dwarf galaxies of the Milky Way The Local Group is the galaxy group that includes the Milky Way, where Earth is located. It has a total diameter of roughly 3 megaparsecs (10 million light-years; 9×10^{19} kilometres), [1] and a total mass of the order of 2×10^{12} solar masses (4×10^{42} kg). [2]



New Galactic Supercluster Map Shows Milky Way's 'Heavenly' ...

This computer-generated depiction of the Laniakea Supercluster of galaxies, which includes the Milky Way galaxy containing Earth's solar system, shows a view of the supercluster as seen from the



[Stars & Galaxies Test 1 Flashcards](#)

Study with Quizlet and memorize flashcards containing terms like Rank to following in order from smallest to largest. Local Group, Milky Way, Solar System, Universe, Sun, Earth, Laniakea Supercluster, Virgo Supercluster, If an event were to take place on the Sun, approximately how long would the light it generates take to reach us? a. 8 minutes b. 11 hours c. 1 second d. 1 day ...



[Astronomy & Cosmology CH 1 OO Flashcards](#)

Study with Quizlet and memorize flashcards containing terms like Which of the following correctly lists our "cosmic address" from smallest to largest? A) Earth, solar system, Milky Way Galaxy, Local Group, Local Supercluster, universe B) Earth, solar system, Local Group, Local Supercluster, Milky Way Galaxy, universe C) Earth, Milky Way Galaxy, solar system, Local ...

[Astronomy Chapter 1 Flashcards](#)

Study with Quizlet and memorize flashcards containing terms like Rank the following objects from largest to smallest: local supercluster, earth, jupiter, milky way, our solar system, local group, the universe, the sun,, rank the following items from longest distances to shortest distances (put a / between ones of equal distances) the distance from the sun to the center of the milky way ...



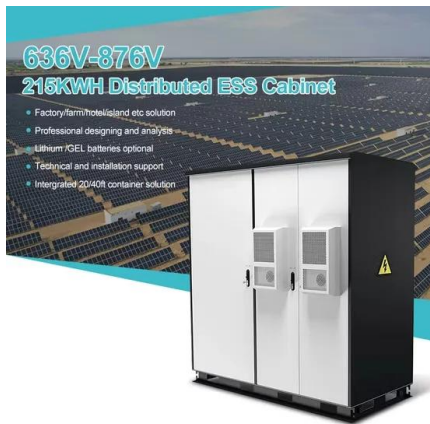
Scientists find galaxy supercluster as massive as 26

Solar System Planets Night Sky Tonight The Universe Scientists find galaxy supercluster as massive as 26 quadrillion suns News By Robert Lea published



Large Scale Structures

Galaxies, galaxy groups and clusters, superclusters, and galactic walls are arranged in twisting, threadlike structures called the cosmic web. The web forms as the gravitational attraction of the universe's matter draws larger and larger ...



Learn about galaxy clusters, superclusters, and the Local Group

Our galaxy is located on the edge of a supercluster in a small galaxy cluster called the Local Group. The Local Group includes 36 galaxies. The Milky Way, our galaxy, is one of the larger ones. Its closest neighbors are the Large Magellanic Cloud and the Small

Virgo Supercluster

The Local Supercluster (LSC or LS) is a formerly defined supercluster containing the Virgo Cluster and Local Group, which itself contains the Milky Way and Andromeda galaxies, as well as others. At least 100 galaxy groups and clusters are located within its diameter of 33 megaparsecs (110 million light-years).





What is the order from largest to smallest: galaxy, universe, star

The Size of the Universe: The universe is huge, being some 93 billion light-years in diameter. The Earth is a single, relatively small planet in the vast immense of space. To put this in perspective, if we scaled the universe down so that Earth and Sun were about an inch apart, the next closest star would be about 4 miles away.

Where Galaxies Grow Bigger: The Supercluster Effect

Astronomers have discovered that the largest galaxies in the universe tend to cluster in densely packed cosmic regions, challenging long-held beliefs about galaxy evolution. What makes these galactic giants thrive in crowded cosmic cities, and what does this mean for our knowledge of the universe? Let's unravel this intriguing discovery. Machine Learning ...



Earth's new address: 'Solar System, Milky Way, Laniakea'

The supercluster of galaxies that includes the Milky Way is 100 times bigger in volume and mass than previously thought, a team of astronomers says. They have mapped ...



Newly identified galactic supercluster is home to the Milky Way

Astronomers using the National Science Foundation's Green Bank Telescope (GBT), among others, have determined that our Milky Way Galaxy is part of a newly identified ginormous supercluster of





Milky Way

The Milky Way [c] is the galaxy that includes the Solar System, with the name describing the galaxy's appearance from Earth: a hazy band of light seen in the night sky formed from stars that cannot be individually distinguished by the naked eye. The Milky Way is a barred spiral galaxy with a D 25 isophotal diameter estimated at 26.8 ± 1.1 kiloparsecs ($87,400 \pm 3,600$ light-years), [10] ...

Galaxy cluster

Composite image of five galaxies clustered together just 600 million years after the Universe's birth [1] A galaxy cluster, or a cluster of galaxies, is a structure that consists of anywhere from hundreds to thousands of galaxies that are bound together by gravity, [1] with typical masses ranging from 10^{14} to 10^{15} solar masses.



Supercluster , Astronomy, Galaxies & Clusters , Britannica

Supercluster, a group of galaxy clusters typically consisting of 3 to 10 clusters and spanning as many as 200,000,000 light-years. They are the largest structures in the ...

Supercluster , Astronomy, Galaxies & Clusters , Britannica

Ask the Chatbot a Question Ask the Chatbot a Question supercluster, a group of galaxy clusters typically consisting of 3 to 10 clusters and spanning as many as 200,000,000 light-years. They are the largest structures in the universe 1932 American astronomers Harlow Shapley and Adelaide Ames introduced a catalog



that showed the distributions of galaxies brighter than 13th ...

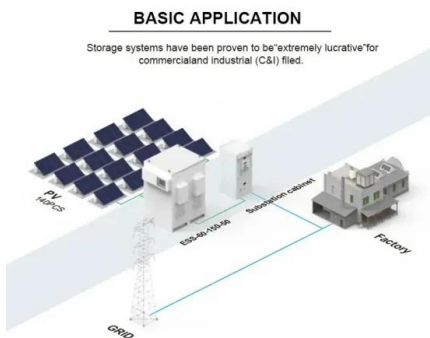


Stuff i got wrong in astronomy 101 but correct now

quark, proton, atom, molecule, paramecium, water droplet, person, earth, solar system, galaxy, cluster, supercluster, universe 1 / 52 1 / 52 Flashcards Learn Test Match Q-Chat Created by Gurvir1123 Share astro Share Get better grades with Learn 82% of

Imagine the Universe!

Our planet is part of a solar system, which is in a star system, which is in an outer arm of a galaxy, which is part of a cluster of galaxies, which is part of a supercluster of galaxies. Now we can see that these superclusters of galaxies are distributed, not uniformly across space, but in filaments, sheets, and walls, interspersed with large, nearly empty voids.



Size and Distance Scales of Levels of Structure in the Universe

Study with Quizlet and memorize flashcards containing terms like Rank the following items according to their size (diameter) from left to right, from largest to smallest. local supercluster, local group, milky way galaxy, our solar system, the Sun, Earth, Jupiter, the universe, Rank the following items that describe distances from longest distance (left) to shortest distance (right). ...



Scientists find galaxy supercluster as massive as 26

The researchers determined that the typical mass of a supercluster in this collection is around 6 quadrillion solar masses, while the typical size of a supercluster is around 200 million



Astronomy Test Flashcards

Study with Quizlet and memorize flashcards containing terms like Rank the given objects in order of increasing size. (smallest to largest) milky way, solar system, earth, supercluster, local group., Rank the following in order of size, from smallest to largest distance. - Earths sun, milky way galaxy. - sun to proxima centura - sun to earth - earth to moon - sun to neptune, what is a light

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