

Local group solar system





Overview

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; 9×10^6 kilometres), and a total mass of the order of 2×10^{12} solar masses (4×10^{41} kg). It consists of two collections of galaxies in a "dumbbell" shape; the Milky Way.

The term "The Local Group" was introduced by in Chapter VI of his 1936 book *The Realm of the Nebulae*. There, he described it as "a typical small group of.

The galaxies of the Local Group are likely to merge together under their own mutual gravitational attractions over a timescale of into.

• . Retrieved 12 March 2020. • . Retrieved 12 March 2020. • van den.

Streams • , a stream of gas being stripped off the Magellanic Clouds due to their interaction with.

• • , possibly the group of galaxies nearest to the Local Group • , another candidate for the group of galaxies nearest to the Local Group

The group is estimated to have a total mass of $(1.29 \pm 0.14) \times 10^{12}$ solar masses. The group itself is one of many within the Virgo Supercluster (i.e. the Local Supercluster). The two most massive members of the group are the Milky Way and the Andromeda Galaxy. What is the local group of galaxies?

The Local Group is the group of galaxies that includes our galaxy, the Milky Way. The group comprises over 35 galaxies, with its gravitational center located somewhere between the Milky Way and the Andromeda Galaxy. The galaxies of the Local Group cover a 10 million light-year diameter and have a binary (dumbbell) shape.

How big are the Local Group galaxies?

The Local Group galaxies are all located within roughly 5 million light-years of space around us. The Local Group's diameter is about 10 million light-years. Our Milky Way is just one of three large galaxies in the Local Group. But it's not the biggest of the Local Group galaxies. That would be the Andromeda



galaxy.

What is a local group?

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), and a total mass of the order of 2×10^{12} solar masses (4×10^{42} kg).

Does the local group have a gravitational center?

On the other hand, the Local Group does have a gravitational center. It's somewhere between the Milky Way and the Andromeda galaxy. Also, astronomers have also discovered that our Local Group is on the outskirts of a giant supercluster of galaxies, known as the Virgo Supercluster. The 2024 lunar calendars are here!.

How big is the local group?

The galaxies of the Local Group cover a 10 million light-year diameter and have a binary (dumbbell) shape. The group is estimated to have a total mass of $(1.29 \pm 0.14) \times 10^{12}$ solar masses. The group itself is one of many within the Virgo Supercluster (i.e. the Local Supercluster).

What is the largest galaxy in the local group?

The Andromeda Galaxy (M31), seen here in ultraviolet light, is the largest galaxy in the Local Group with some 1 trillion stars — roughly twice the population of our own Milky Way.



Local group solar system



Local Group

Milky Way Galaxy: The galaxy that contains our solar system and most of the stars visible in the night sky. It is a spiral galaxy that is part of the Local Group. **Andromeda Galaxy:** The largest galaxy in the Local Group, a spiral galaxy located about 2.5 million light-years from the Milky Way.

Groups of Galaxies

The local group is part of a larger group again called the Virgo Supercluster. The Milky Way is actually converging with a smaller galaxy, the Sagittarius Dwarf galaxy. In several million years' time, the larger spiral Andromeda galaxy (M31) will converge with the Milky Way and form an even larger galaxy.



[The Local Group is our galactic neighborhood](#)

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[quiz 1 Flashcards , Quizlet](#)

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



Milky Way Galaxy, Local Group, Local Supercluster, universe C. Earth, Milky Way Galaxy, solar system, ...



, NEWS Earth's new address: 'Solar System, Milky Way, ...

Earth's new address: 'Solar System, Milky Way, Laniakea' Analysis of galaxies shows local supercluster to be 100 times larger than previously thought. 03 September 2014



The Local Group 1.0 Planet Pack

The Local Group 1.0 I'm excited to announce the release of my custom Planet Pack! After a lot of work, I'm finally ready to share it with you all. This pack is a merge between the top 2 Planet Packs in this forum, the MMW and Go Beyond 5.0 packs, but with enhancements!



LFP 280Ah C&I



Our Cosmic Address: Where is Earth Situated in the Universe?

Our solar system can be divided into two groups: the inner solar system and the outer solar system. Within the inner solar system resides the terrestrial planets, Mercury, Venus, Earth, and Mars. The inner and outer solar system are divided by the asteroid belt, a ring of solid, irregularly shaped bodies between Mars and Jupiter.



Location of Earth

One orbital period of the Solar System lasts between 225 and 250 million years. [34] [35] Milky Way Galaxy 30,000 pc 9.26×10¹⁷ Group of galaxies including the Local Group moving at the same relative velocity towards the Virgo Cluster and away from the .



Astronomy 1010 (Quiz 1 & 2) Flashcards , Quizlet

Universe, Local Group, Milky Way, Solar System 1 / 50 1 / 50 Flashcards Learn Test Match Q-Chat Created by cutie_angel Share Share Get better grades with Learn 82% of students achieve A's after using Learn Study with Learn Textbook solutions 3rd Edition

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

Analysis of galaxies shows local supercluster to be 100 times larger than previously thought. Gibney, E. Earth's new address: 'Solar System, Milky Way, Laniakea'. Nature (2014). <https://doi.org/10.1038/nature12875>



[Our Local Group of Galaxies](#)

3 5 Local Group Components (cont'd): Dwarf Ellipticals(dEs) and Dwarf Spheroidals(dSphs) oThese galaxies contain no (or very little gas) so that MHI/LB



Local Group

The Local Group is a small cluster of more than 50 galaxies located in the outskirts of the Virgo Supercluster. Its gravitational field is somewhere between the Milky Way and Andromeda galaxy. The biggest galaxy of the cluster is the Andromeda Galaxy, an unbarred spiral galaxy, closely followed by our own Milky Way. The last major galaxy in the local group is the Triangulum ...



The Local Group: a guide to our galaxy's neighbourhood

The Milky Way is not alone in the Universe. Our Galaxy and its neighbour the Andromeda Galaxy are locked together by gravity. Caught along with them are a host of 30-50 smaller galaxies, ...

Solar System

The Solar System is surrounded by the Local Interstellar Cloud, although it is not clear if it is embedded in the Local Interstellar Cloud or if it lies just outside the cloud's edge. [262] Multiple other interstellar clouds exist in the region within 300 ...



[Où sommes-nous dans la groupe local?](#)

Le Groupe local est le groupe de plus de 54 galaxies auquel appartient la Voie lactée. Son diamètre est d'environ 10 millions d'années-lumière. En 1936 Edwin Hubble recense huit galaxies dans le groupe local : la Voie lactée, le Grand Nuage de Magellan, le Petit Nuage de Magellan, la galaxie d'Andromède, M32, NGC 205, la galaxie du Triangle, la galaxie de Barnard.



[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 ...



astronomy chapter 1 quiz Flashcards , Quizlet

Study with Quizlet and memorize flashcards containing terms like which of the choices below correctly lists things in order from largest to smallest? A) Local Group, Solar System, Milky Way, Universe B) Universe, Milky Way, Local Group, Solar System C) Solar System, Local Group, Universe, Milky Way D) Universe, Local Group, Milky Way, Solar System E) Milky Way, ...

[Astronomy Chapter 1 Flashcards](#)

Study with Quizlet and memorize flashcards containing terms like Which of the choices below correctly lists things in order from largest to smallest? Select one: A. Local Group, Solar System, Milky Way, Universe B. Milky Way, Universe, Solar System, Local Group C. Universe, Milky Way, Local Group, Solar System D. Universe, Local Group, Milky Way, Solar System E. Solar ...



What is Local Group - Group of Thirty or More Galaxies

Our Solar System can be found on the Milky Way galaxy. The Milky Way galaxy is part of a group of about 30 to 35 galaxies in one neighbourhood and are collectively called as a Local Group . This



neighbourhood of galaxies covers the entire sky.



The Local Group

The largest and heaviest members of the Local Group are the Milky Way and the Andromeda galaxy, M31, which is about 2.5 million light-years away. In other words, when we see M31, we're actually seeing it as it appeared more than two million years ago.



Chapter 1 Flashcards

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The Local Group

The Local Group contains a number of small stellar systems. Most of these are dwarf elliptical galaxies, and a few are irregulars. The elliptical or spheroidal galaxies resemble giant globular ...





[Explore the Local Group of Galaxies](#)

A graphical representation of the Local Group of galaxies, including our own. It contains at least 54 individual members. Antonio Ciccolella, CC BY-SA 4.0 Local Group Stats Each galaxy in the Local Group has its own size, shape, and defining characteristics. The

The Local Group

The dynamics of the Local Group are changing, and some astronomers speculated that one day the two large spirals in it (M31 and the Milky Way) may collide and merge to form a giant elliptical galaxy. It is also possible that the Local Group may one day merge with the next nearest big galaxy cluster, the Virgo Cluster.



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[Our Local Group of Galaxies](#)

The Local Group is our local Universe: It is a physical (i.e. gravitationally bound) association of at least ~50 galaxies (continues to increase as new satellites of the Milky Way and M31 are ...

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

Earth, the Solar System, Oort Cloud, Local Fluff, Local Bubble, Orion Arm, Milky Way Galaxy, Local Group, Virgo It's home to about 100 small groups of galaxies, including our Local Group. A

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[Our Local Group of Galaxies](#)

5 Local Group Components (cont'd): Dwarf Ellipticals (dEs) and Dwarf Spheroidals (dSphs) o These galaxies contain no (or very little gas) so that MHI/LB

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