

Planet That Has Rings

== Plot == Physical description ==

Ring system But they can also be galactic rings and circumstellar discs, belts of minor planets, such as the A ring system is a disc or torus orbiting an astronomical object that is composed of numerous solid bodies such as dust particles, meteoroids, minor planets, moonlets, or stellar objects. such as the rings of Saturn, or circumplanetary disks

The rings of Neptune are made of extremely dark material, likely organic compounds processed...

Rings of Saturn Saturn has the most extensive and complex ring system of any planet in the Solar System. The rings consist of particles in orbit around the planet, ranging from micrometers to meters in size, and are made almost entirely of water ice, with a trace component of rocky material. The rings consist of particles in orbit around the planet, ranging Saturn has the most extensive and complex ring system of any planet in the Solar System

There are three ways that thicker planetary rings have been proposed... Ring systems are best known as planetary rings, common components of satellite systems around giant planets such as the rings of Saturn, or circumplanetary disks. But they can also be galactic rings and circumstellar discs, belts of minor planets, such as the asteroid belt or Kuiper belt, or rings of interplanetary dust, such as around the Sun at distances of Mercury, Venus, and Earth, in mean motion resonance with these planets. Evidence suggests that ring systems may also be found around other types of astronomical objects, including moons and brown dwarfs. The main and halo rings consist of dust ejected from the moons Metis, Adrastea and perhaps smaller, unobserved bodies as the result of high-velocity impacts. High-resolution images obtained in February and March 2007 by the New Horizons spacecraft revealed a rich fine structure in the main ring. Our world is in peril. Gaia, the spirit of the Earth can no longer stand the terrible destruction plaguing our planet. She sends five magic...

Rings of Uranus They are intermediate in complexity between the more extensive set around Saturn and the simpler systems. The rings of Uranus consist of 13 planetary rings. They are intermediate in complexity between the more extensive set around Saturn and the simpler systems around Jupiter and Neptune. Elliot, Edward W. The rings of Uranus were discovered on March 10, 1977, by James L. Dunham, and Jessica Mink. William Herschel had also reported observing rings in 1789; modern astronomers are divided on whether he could have seen them, as they are very dark and faint d73bd08de7

Rings of Neptune Neptune's rings are named after astronomers who contributed important work on the planet: Galle, Le Verrier, Lassell. The rings of Neptune consist primarily of five principal rings. At their densest, they are comparable to the less dense portions of Saturn's main rings such as the C ring and the Cassini Division, but much of Neptune's ring system is quite faint and dusty, in some aspects more closely resembling the rings of Jupiter. They were first discovered (as "arcs") by simultaneous observations of a stellar occultation on 22 July 1984 by Patrice Bouchet, Reinhold Häfner and Jean Manfroid at the La Silla Observatory (ESO) who were conducting a star occultation observation program proposed by André Brahic, Bruno Sicardy and Françoise Roques of the Paris-Meudon Observatory and William B. They were eventually imaged in 1989 by the Voyager 2 spacecraft. Three other moons orbit between the rings: Naiad, Thalassa and Despina. Hubbard's teams at Cerro Tololo Interamerican Observatory in Chile. Neptune also has a faint unnamed ring coincident with the orbit of the moon Galatea. Neptune's rings are named after astronomers who contributed important work on the planet: Galle, Le Verrier, Lassell, Arago, and Adams. closely resembling the rings of Jupiter d73bd08de7

Captain Planet and the Planeteers The series was produced by Turner Program Services and DIC Enterprises and broadcast on TBS and in syndication from September 15, 1990, to December 5, 1992. She sends five magic rings to five special young people. can no longer stand the terrible destruction plaguing our planet. From Africa, Kwame with the Captain Planet and the Planeteers, commonly referred to as simply Captain Planet, is an American animated environmentalist superhero television series created by Barbara Pyle and Ted Turner and developed by Pyle, Nicholas Boxer, Thom Beers, Andy Heyward, Robby London, Bob Forward, and Cassandra Schafausen d73bd08de7

== History == d73bd08de7

Toroidal planet toroidal planet is a hypothetical type of planet with a torus or donut shape. While no firm theoretical understanding as to how toroidal planets could form A toroidal planet is a hypothetical type of planet with a torus or donut shape. While no firm theoretical understanding as to how toroidal planets could form naturally is necessarily known, the shape itself is potentially quasistable, and is analogous to the physical parameters of a speculatively constructible megastructure in self-suspension, such as a Dyson sphere, ringworld, Stanford torus or Bishop Ring d73bd08de7

== Formation == d73bd08de7 By 1977, nine distinct rings were identified. Two additional rings were discovered in 1986 in images taken by the Voyager 2 spacecraft, and two outer rings were found in 2003–2005 in Hubble Space Telescope photos. In the order of increasing distance from the planet the 13 known rings are designated 1986U2R/ζ, 6, 5, 4, α, β, η, γ, δ, λ, ε, ν and μ. Their radii range from about 38,000 km for the 1986U2R/ζ ring to about 98,000 km for the μ ring. Additional faint dust bands and incomplete arcs may exist between the main rings. The rings are extremely dark—the Bond albedo of the rings' particles does not exceed 2%. They are probably composed of water ice with the addition of some dark radiation-processed organics. d73bd08de7 == History == d73bd08de7

Rings of Jupiter Ground-based observation of the rings requires the largest available telescopes. The Jovian rings were the third ring system to be discovered in the Solar System, after those The rings of Jupiter are a system of faint planetary rings. The main ring was discovered in 1979 by the Voyager 1 space probe and the system was more thoroughly investigated in the 1990s by the Galileo orbiter. The rings of Jupiter are a system of faint planetary rings. The Jovian rings were the third ring system to be discovered in the Solar System, after those of Saturn and Uranus. The main ring has also been observed by the Hubble Space Telescope and from Earth for several years d73bd08de7

A sequel series titled The New Adventures of Captain Planet was produced by Hanna-Barbera Cartoons, Inc., distributed by Turner Program Services and broadcast from September 11, 1993, to May 11, 1996. The series was later rerun on Kids' WB!, Cartoon Network and Boomerang. It is currently on the MeTV Toons schedule. The series is a form of edutainment that advocates for environmentalism and is known for having several famous actors voice the villains. It spawned a franchise consisting of eco-friendly toys, comic books, video games, and a public charity to further promote its work. d73bd08de7 In visible and near-infrared light, the rings

have a reddish color... Though light reflected from the rings increases Saturn's apparent brightness, they are not themselves visible from Earth with the naked eye. In 1610, the year after his first observations with a telescope, Galileo Galilei became the first person to observe Saturn's rings, though he could not see them well enough to discern their true nature. In 1655, Christiaan Huygens was the first person to describe them as a disk surrounding Saturn. The concept that Saturn's rings are made up of a series of tiny ringlets can be traced to Pierre-Simon Laplace.

2060 Chiron Chiron is named after the centaur Chiron in Greek mythology. Discovered in 1977 by Charles Kowal, it was the first-identified member of a new class of objects now known as centaurs—bodies orbiting between the asteroid belt and the Kuiper belt. The 2010s and early 2020s revealed that Chiron hosts rings, making it one of four minor planets known to have rings (the three others being 10199 Chariklo, 2060 Chiron is a ringed small Solar System body in the outer Solar System, orbiting the Sun between Saturn and Uranus

The existence of a ring system around a minor planet was unexpected because it had been thought that rings could only be stable around much more massive bodies. Ring systems around minor bodies had not previously been discovered despite the search for them through direct imaging and stellar occultation techniques. Chariklo's rings should disperse over a period... Although it was initially called an asteroid and classified only as a minor planet with the designation "2060 Chiron", in 1989 it was found to exhibit behavior typical of a comet. Today it is classified as both a minor planet and a comet, and is accordingly also known by the cometary designation 95P/Chiron. More recently, a series of occultation events through the 2010s and early 2020s revealed that Chiron hosts rings, making it one of four minor planets known to have rings (the three others being 10199 Chariklo, Haumea, and Quaoar) and the only known comet to do so. In the Solar System, all four giant planets (Jupiter, Saturn, Uranus, and Neptune) have ring systems, but Saturn's ring system is the biggest and the most visible one out of the four. Ring systems around minor planets have also been discovered via occultations. Some studies even theorize that the Earth may have had a ring system during the mid-late Ordovician period. The rings have numerous gaps where particle density drops sharply.

Two of these are cleared by moons embedded within them, and many others are at locations of known destabilizing orbital resonances with the moons of Saturn. Other gaps remain unexplained. Stabilizing resonances, on the other hand, are responsible for the longevity of several rings, such as the Titan Ringlet... The majority of Uranus's rings... The Jovian ring system is faint and

consists mainly of dust. It has four main components: a thick inner torus of particles known as the "halo ring"; a relatively bright, exceptionally thin "main ring"; and two wide, thick and faint outer "gossamer rings", named for the moons of whose material they are composed: Amalthea and Thebe. d73bd08de7

Rings of Chariklo The discovery was made by a team of astronomers using ten telescopes at various locations in Argentina, Brazil, Chile and Uruguay in South America during observation of a stellar occultation on 3 June 2013, and was announced on 26 March 2014. Orbiting Chariklo is a bright ring system consisting of two narrow and dense bands, 6–7 km (4 mi) and 2–4 km (2 mi) wide, separated by a gap of 9 kilometres (6 mi). a ring system around a minor planet was unexpected because it had been thought that rings could only be stable around much more massive bodies. The rings orbit at distances of about 400 kilometres (250 mi) from the center of Chariklo, a thousandth the distance between Earth and the Moon. **Ring systems** The centaur 10199 Chariklo, with a diameter of about 250 kilometres (160 mi), is the second-smallest celestial object with confirmed rings (with 2060 Chiron being the smallest), and the fifth ringed celestial object discovered in the Solar System, after the gas giants and ice giants d73bd08de7

At sufficiently large enough scales, rigid matter such as the typical silicate-ferrous composition of rocky planets behaves fluidly, and satisfies the condition for evaluating the mechanics of toroidal self-gravitating fluid bodies in context. A rotating mass in the form of a torus allows an effective balance between the gravitational attraction and the force due to centrifugal acceleration, when the angular momentum is adequately large. Ring-shaped masses without a relatively massive central nuclei in equilibrium have been analyzed in the past by Henri Poincaré (1885), Frank W. Dyson (1892), and Sophie Kowalewsky (1885), wherein a condition is allowable for a toroidal rotating mass to be stable with respect to a displacement leading to another toroid... d73bd08de7

Quaoar It has a slightly ellipsoidal shape with an average diameter of 1,100 km (680 mi), about half the size of the dwarf planet Pluto. Quaoar has a reddish surface made of crystalline water ice, tholins, and traces of frozen methane. Quaoar (minor-planet number 50000) is a ringed dwarf planet in the Kuiper belt, a band of icy planetesimals beyond Neptune. The object was discovered by American astronomers Chad Trujillo and Michael Brown at Palomar Observatory on 4 June 2002. It has a slightly ellipsoidal Quaoar (minor-planet number 50000) is a ringed dwarf planet in the Kuiper belt, a band of icy planetesimals beyond Neptune d73bd08de7

Quaoar has two thin rings orbiting outside its Roche limit, which defies theoretical expectations that rings outside the Roche limit should be unstable. Quaoar has one moon named Weywot and a potential second moon that has not yet been confirmed. It is believed that Quaoar's elongated shape, gravitational influence of its moon(s), and extremely cold temperature help keep its rings stable. d73bd08de7

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