

Descobre um planeta incomum com uma composição semelhante a algodão doce

Inscreva-se para receber as notícias científicas da **poker mira**, a Teoria Maravilhosa.

Explore o universo com notícias sobre descobertas fascinantes, avanços científicos e muito mais. O que é grande, com uma composição semelhante a algodão doce e fluffly? Resulta que se trata de um planeta.

Uma coligação internacional de astrônomos recently discovered a planet, named WASP-193b, that's about 50% bigger than Jupiter and somehow still the second lightest planet ever found. But WASP-193b, located beyond our solar system about 1,200 light-years from Earth, isn't just a scientific oddity. The exoplanet could also be key to future research investigating atypical planetary formation, according to a study describing the find that published Tuesday in the journal Nature Astronomy.

Um planeta semelhante a algodão doce

This cotton candy planet isn't alone; there are other similar planets belonging to a class scientists facetiously call "puffy Jupiters." The lightest planet ever discovered is the superpuffy Kepler 51d, which is nearly the size of Jupiter but a hundred times lighter than the gas giant.

Puffy Jupiters have largely been a mystery for 15 years, said lead study author Khalid Barkaoui. But WASP-193b, because of its size, is an ideal candidate for further analysis by the James Webb Space Telescope and other observatories.

"The planet is so light that it's difficult to think of an analogous, solid-state material," said Barkaoui, a postdoctoral researcher of Earth, atmospheric and planetary sciences at the Massachusetts Institute of Technology, in a news release. "The reason why it's close to cotton candy is because both are mostly made of light gases rather than solids. The planet is basically super fluffy."

WASP-193b, which researchers think is made up of mostly hydrogen and helium, was a huge puzzle for researchers to piece together. Because the exoplanet's density is so light for its size, calculating its mass became a challenge.

Desafio **poker mira** calcular a massa do planeta

Usually, scientists determine mass using a technique called radial velocity, in which researchers analyze how a star's spectrum, a graph that indicates the intensity of light emissions in wavelengths, shifts as a planet orbits it. The bigger the planet, the more the star's spectrum can shift - but this didn't work for WASP-193b, which is so light, it didn't make any pull on the star that the team could detect.

Because of how small the mass signal was, it took the team four years to gather data and calculate WASP-193b's mass, Barkaoui explained. Because the extremely low numbers they found were so rare, the researchers completed multiple trials of data analysis, just to be sure.

"We were initially getting extremely low densities, which were very difficult to believe in the beginning," said co-lead author Francisco Pozuelos, a senior researcher at Spain's Institute of Astrophysics of Andalusia, in a news release.

Eventually the team discovered the planet's mass is a measly 14% that of Jupiter, despite being so much bigger.

Um planeta com uma atmosfera extensa python enredora

But a bigger size means a bigger "extended atmosphere," said study coauthor Julien de Wit, an associate professor of planetary science at MIT. That means WASP-193b provides an especially useful window into these puffy planets' formation.

"The bigger a planet's atmosphere, the more light can go through," de Wit told **poker mira**. "So it's clear that this planet is one of the best targets we have for studying atmospheric effects. It will be a Rosetta Stone to try and resolve the mystery of puffy Jupiters."

But it's also not clear how WASP-193b even formed, Barkaoui said. The "classical evolution models" of gas giants don't quite explain the phenomenon.

"WASP-193b is an outlier of all planets discovered to date," he said.

Kyrie Irving Rinde Homenaje a Kobe Bryant antes de las Finales de la NBA

La estrella de los Dallas Mavericks, Kyrie Irving, rindió homenaje al fallecido Kobe Bryant el lunes, mientras se prepara para las Finales de la NBA que comienzan el jueves.

Irving llamó a Bryant, quien murió en un accidente de helicóptero en 2024 junto con su hija, su "mentor", agregando que "lo extraña todos los días".

"Tenía una presencia tan grande y sabía que sus superpoderes no estaban solo en la cancha, sino en cómo se acercaba a la vida", dijo Irving a los reporteros. "Te inspiraba a hacer un extra incluso cuando estabas cansado. Sus lecciones de vida trascendían el baloncesto, cualquier deporte o negocio del entretenimiento."

Irving, de 32 años, habló sobre cómo pudo aprender del ejemplo que Bryant estableció, tanto en la cancha como fuera de ella, y ayudarlo a crecer como persona.

Irving fue reclutado en la NBA en 2011 y Bryant se retiró en 2024, con los dos enfrentándose entre sí en seis ocasiones.

Agregó que, aunque Bryant ya no está, el ex leyenda de los Lakers de Los Ángeles "camina conmigo en espíritu" todos los días.

"Siento su presencia todos los días y estoy agradecido de haber tenido la oportunidad de conocer a alguien así y haber tenido la oportunidad de desafiarlos uno a uno y de simplemente rascar la superficie de su cerebro y comprender que hay cosas más grandes que el juego de baloncesto, como la empoderamiento de la mujer y también haciendo las pequeñas cosas que mucha gente no ve, significa ayudar al mundo sin alabarse a sí mismo", dijo el escolta de los Mavs.

"Podría seguir y seguir sobre esto, pero ayudó a muchas personas que nadie realmente sabe y hizo cosas sin elogios de nadie, así que trato de seguir su mismo linaje y crear mi propio camino y crear mi propia fórmula para el éxito mientras también conmemoro su fórmula que me dio".

Irving ha ayudado a llevar a los Mavericks a las Finales de la NBA por primera vez desde 2011 y por tercera vez en la historia de la organización.

En la ilustre carrera de Bryant, llegó a las Finales de la NBA en siete ocasiones, ganando el campeonato de la NBA cinco veces.

Su pareja en la cancha con Luka Doni ha resultado casi imparable durante los playoffs para las defensas opuestas, pero el equipo se enfrenta a una dura tarea contra los Boston Celtics, quienes también han dominado en los playoffs en su camino al trofeo Larry O'Brien.

El Juego 1 de las Finales de la NBA comienza a las 8:30 p.m. ET del jueves 6 de junio en el TD Garden de Boston.

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