

What is the Hubble tension?

The discrepancy is called the Hubble Tension. The observations by Webb, the most capable space telescope ever deployed, appear to rule out the notion that the data from its forerunner Hubble was somehow flawed due to instrument error.

Are Webb and Hubble measurements in harmony?

The Webb and Hubble measurements were in harmony. The universe's expansion rate, a figure called the Hubble constant, is measured in kilometers per second per megaparsec, a distance equal to 3.26 million light-years. A light-year is the distance light travels in a year, 5.9 trillion miles (9.5 trillion km).

Is the Hubble tension caused by dark matter and dark energy?

Now, according to a new paper in The Astrophysical Journal, new measurements from Webb have confirmed that the Hubble tension isn't due to some flaw in our observations, but instead potentially due to the influence of dark matter and dark energy.

What is the Hubble constant?

The rate of expansion of the universe today is a figure known as the Hubble constant, which is typically measured in units of kilometers per second per megaparsec (km/s/Mpc), where a megaparsec (Mpc) is about 3.26 million light-years.

Why is Hubble unable to collect astronomical data?

Hubble is unable to collect astronomical data during these moments, which is not ideal, but necessary. Failing to take precautions would likely lead to system failure. Certainly, the more complex electronics have become, the more potential there is for problems to emerge.

Is there a discrepancy between expansion rate and Hubble tension?

There has been a long-established discrepancy between the observed expansion rate of the universe and the rate we thought possible based on our knowledge of the cosmos, which is known as the Hubble tension.

5 ???&#0183; Image caption: Three views of NGC 4258, also known as Messier 106, which is about 23 million light-years away in the constellation Canes Venatici. The first two images show it in ...

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1 ??"#0183; There's still a lot to be learned about the physics of our universe--and one of the most perplexing ideas is something called the Hubble Tension. That's an observation, made around a decade ago, that the universe seems to be ...

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3 ????"#0183; "One possible explanation for the Hubble tension would be if there was something missing in our understanding of the early universe, such as a new component of matter--early dark energy--that ...

The Hubble and Webb data give a value averaging about 73, with a range of about 70-76. The Big Bang event 13-14 billion years ago initiated the universe, and it has been expanding ever since.

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This illustration is made up of screenshots from Hubblecast 77: Hubble and the Bermuda Triangle of space. The Hubblecast tells the story of what happens to Hubble in the mysterious region known as the South Atlantic ...

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Marketing Manager & Musician &#183; Creative and highly driven digital marketer with experience in brand strategy, data analysis, content creation, and social media management. &#183; Experience: Hubble Energy &#183; Education: Anglia Ruskin University &#183; Location: City of Cape Town &#183; 111 connections on LinkedIn. View Alanna Joy Wells" profile on LinkedIn, a professional ...

Hubble Energy, a leader in advanced energy storage solutions, offers innovative, sustainable power systems that drive efficiency, cost savings, and energy independence. Combat Rising Energy Costs As key industrial and urban electricity tariffs in South Africa increased by an average of 13.29% for 2024/2025, controlling energy expenses is more ...

Hubble Energy was born and set off introducing innovation that was missing. "I have always been in the power industry," Vincent tells Enterprise Africa. "I was in uninterrupted power supply (UPS) before solar panels became popular. I saw the opportunity when lithium was in its infancy. Lead-acid doesn't last with loadshedding.

This illustration is made up of screenshots from Hubblecast 77: Hubble and the Bermuda Triangle of space. The Hubblecast tells the story of what happens to Hubble in the mysterious region known as the South Atlantic Anomaly. When satellites pass through this area they are bombarded with swarms of intensely high energy particles.

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