

## Dark Matter Astrophysical Observations Dark Matter

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Dark matter is a form of matter thought to account for approximately 85% of the matter in the universe and about a quarter of its total mass – energy density or about 2.241 × 10<sup>-27</sup> kg/m<sup>3</sup>. Its presence is implied in a variety of astrophysical observations, including gravitational effects that cannot be explained by accepted theories of gravity unless more matter is present than can be seen.

Dark matter - Wikipedia

While there is definitely dark matter in the universe—in the form of CDOs and/or in other forms—the most surprising result of my papers of 2020 is the following: It is quite possible that dark matter or a part of it is represented not by some largely unspecified, undiscovered subatomic particles, but by hydrogen atoms: Namely, by the second flavor, whose existence has already been proven by the analysis of atomic experiments and which could also have astrophysical proof (from the ...

Explaining dark matter without hypothetical undiscovered ...

Scientists determined the location and concentration of the cluster 's dark matter by observing how its mass distorted the light from distant galaxies behind the cluster. NASA, ESA, and J. Jee ...

Ask Astro: If dark matter is invisible, then how do we ...

Johns Hopkins University study of 10 billion years of microwaves reveals a warming predicted by dark matter theory. Who says you can ' t get hotter with age? Researchers from Johns Hopkins University and other institutions have found that, on average, the temperature of galaxy clusters today is 4 million degrees Fahrenheit. That is 10 times hotter than 10 billion years ago, and four times ...

Galaxies Have Gotten Hotter – A Warming Predicted by Dark ...

A University of Colorado Boulder astrophysicist is searching the light coming from a distant, and extremely powerful celestial object, for what may be the most elusive substance in the universe:...

Astrophysicist probes cosmic 'dark matter detector ...

Astrophysical observations show that dark matter makes up most of the "stuff" in the universe but so far it has eluded capture. Researchers around the world have been looking for it in various...

Advanced atomic clock makes a better dark matter detector

Dark matter haloes can also affect how light bends around astrophysical objects in a process called gravitational lensing. But the signals left in the stellar distributions are weak and prone to confusion with the stars' own motions. Another way to probe the effect of haloes is by looking at the galactic gas it affects.

Dark matter: Our method for catching ghostly halos could ...

As fascinating as it is mysterious, dark matter is one of the greatest enigmas of astrophysics and cosmology. It is thought to account for 90 percent of the matter in the universe, but its...

Dark matter exists: Observations disprove alternate ...

Researchers have proposed a plethora of dark-matter candidates that explain astrophysical observations while conforming to the results of previous experiments. One of those candidates is the dark-matter boson, a particle that is predicted to interact weakly with ordinary matter.

Physics - Hints of Dark Bosons

The existence of a vast amount of dark matter (DM) in the Universe is supported by many astrophysical and cosmological observations. The latest measurements indicate that approximately a 27% of the Universe energy density is in form of a new type of non-baryonic cold DM.

DARK MATTER 101 - Durham University

Dark matter haloes can also affect how light bends around astrophysical objects in a process called gravitational lensing. But the signals left in the stellar distributions are weak and prone to...

Physicists search for imprints left by dark matter haloes ...

Astrophysical observations show that dark matter makes up most of the " stuff " in the universe, but so far it has eluded capture. Researchers around the world have been looking for it in various forms.

Advanced Atomic Clock Narrows the Search for Elusive Dark ...

From a whole suite of astrophysical observations, dark matter must exist. And yet, despite every way humanity has ever come up with to try and detect whatever particle might be responsible for dark...

Could DAMA's 'Dark Matter Signal' Simply Be Poorly ...

Recent observations of two ultra-diffuse galaxies, NGC 1052-DF2 (image above) and NGC 1052-DF4, show, however, that this pair of galaxies contains very little, if any, dark matter, challenging ...

"A New Dark Force?" | The Daily Galaxy

The nature of dark matter (DM) remains one of the most intriguing unsolved questions of modern physics. Astrophysical and cosmological observations suggest that DM accounts for roughly 27% of the mass-energy of the universe, with dark energy comprising 68% and ordinary baryonic matter as described by the Standard Model accounting for a paltry 5%.

ALICE's dark side – CERN Courier

Measurements like this have been around for a long time, indicating the overwhelming need for dark matter from a variety of independent observations. The Bullet Cluster, the first example of a...

Why Don ' t Dark Matter Simulations And Observations Match Up?

Dark matter is like the Rome of astronomy, all observations lead to dark matter. The problem is that physicists and astronomers, don't know what it actually is. The observations which support dark matter come from many different independent observations, so it is not just some observational error.

The Astronomist: Dark Matter Confronts Observations

A University of Colorado at Boulder astrophysicist is searching the light coming from a distant, and extremely powerful celestial object, for what may be the most elusive substance in the universe: dark matter.

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