

# Dark Matter

## Introduction:

The existence of dark matter was first suggested in the 1930s by Fritz Zwicky.

Dark matter is matter that does not emit, absorb, or reflect light, hence it is invisible to telescopes that detect light.

## Evidence for Dark Matter:

The rotation curves of galaxies show that stars and gas in the outer regions of a galaxy are moving at higher velocities than they should be, based on the amount of visible matter in the galaxy.

Gravitational lensing also provides evidence for dark matter. Light from distant galaxies is bent and distorted as it passes through the gravitational field of a massive object, such as a cluster of galaxies. The amount of bending is determined by the amount of mass in the cluster, which is much greater than the visible matter in the cluster.

The cosmic microwave background radiation also provides evidence for dark matter. The temperature fluctuations in the radiation reveal the distribution of matter in the early universe, and the distribution is consistent with the presence of dark matter.

## Properties of Dark Matter:

Dark matter is believed to be non-baryonic, meaning it is not composed of protons, neutrons, and electrons like ordinary matter.

It is also believed to be cold, meaning that it moves slowly compared to the speed of light.

The most widely accepted theory for the nature of dark matter is the WIMP (weakly interacting massive particles) hypothesis. WIMPs are particles that interact only through the weak nuclear force and gravity.

## The Search for Dark Matter:

Several experiments have been conducted to search for dark matter particles, such as the Large Hadron Collider and the Dark Energy Survey.

Direct detection experiments search for the rare interactions between dark matter particles and ordinary matter. These experiments typically use large detectors that are shielded from cosmic rays and other sources of background radiation.

Indirect detection experiments search for the products of dark matter annihilation or decay, such as gamma rays or cosmic rays. These experiments typically look for excess radiation coming from regions of the sky where dark matter is believed to be concentrated.

## Conclusion:

Dark matter remains one of the biggest mysteries in modern astrophysics.

The search for dark matter is ongoing, with new experiments and observations providing more clues about its properties and nature.

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**Bella Bathurst**

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