

Chapter 22

Dark Matter

1. What is the difference between "hot" and "cold" dark matter?

"hot" and "cold" refer to the speeds at which the particles move. "hot" dark matter would be composed of particles that move at or near the speed of light. "cold" dark matter consists of slower moving particles or objects.

2. Many of the first kinds of dark matter discovered would no longer be considered dark matter. What were they and why not?

Among the first kinds of dark matter were white dwarfs. They were 'dark' because they were hard to see. But with big enough telescopes, we can see them. So they are faint, but not really dark matter.

Neptune was dark matter because we detected it first through its gravitational influence on the other planets. But then we found it. So it is no longer 'dark.'

White dwarf companions to nearby stars were 'dark' because they were unseen and tugged on their companion stars through their gravity. But now we have found them and can see them. They're not 'dark,' just hard to see.

3. Why is dark matter "dark" and, since it is dark, how do we know it is present?

Dark matter is literally dark. Dark matter does not respond to the electromagnetic force; that is, it does not emit, absorb, reflect, or scatter any kind of light.

We know it is present because it reacts to the force of gravity. It has mass and influences the way other objects move in response to its mass.

4. Who was Fritz Zwicky and what contribution did he make to our understanding of dark matter?

An astronomer who worked at Cal Tech from the 1930s to the 1970s. Made the first observations that suggested the presence of unseen mass in the universe; coined the phrase 'cold dark matter' for this mass. His measurements were of the speeds of galaxies in clusters of galaxies. They were moving fast enough that they should escape from the cluster, if all the mass of the cluster were in the form of stars and other things we could see with our telescopes. Since they were moving 'too fast' yet they were still

Answer To Unit 6 Chapter22

Pamela J. Carter



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