

Q No 2 A) 2018

Outline

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1) Estimating The age of Universe

Keep the description of a single argument brief. 5-7 lines are enough

To estimate the age of universe, Scientists use various methods. One common approach is studying the Cosmic microwave background radiation. This left over radiation from the Big Bang provides valuable insights into the early universe and its age.

By analyzing the cosmic microwave background radiation, Scientists can calculate the age of universe. They examine the temperature fluctuation in the radiation, which reveal the information about the condition and evolution of the early universe.

2) Methods of Estimating The age

* Studying Ancient Stars:-

Another method involves studying ancient stars, such as globular clusters, found in galaxies. These stars act as time capsules, preserving the characteristics from the early universe. By analyzing their composition and properties, scientists can estimate their age and use that to estimate the age of the universe.

* The Planck Satellite:-

Scientists also utilize data from the Planck satellite, which was designed to study the cosmic microwave background radiation. The satellite provided detailed maps of the temperature fluctuations, allowing for more precise estimation of the universe's age.

* Hubble's Law and Expansion of the Universe:-

Edwin Hubble discovered that galaxies are moving away from each other, indicating that the universe

is expanding. By measuring the rate of expansion, known as the Hubble constant, scientist can work backward to estimate the age of the universe.

* Supernovae:

Supernovae are massive explosions that occur at the end of star life. By studying the brightness and characteristics of supernovae in distant galaxies, scientists can determine the rate of cosmic expansion and consequently estimate the age of the universe.

* Baryon Acoustic Oscillations (BAO):

BAOs

are patterns in the distribution of matter in the universe that were imprinted during the early stages of its formation. By studying these patterns and measuring the scale of BAOs, scientists can estimate the age of the universe.

Conclusion:

Estimating the age of the universe is a complex and ongoing

scientific endeavour. By inducting, all
giving methods, scientists continue to
refine their understanding of the
universe as a whole.

Overall the answer is good.

But is lengthy and can affect your
time management so shorten it a
bit