

LESSON 1: Earth

Theories on the Origin of the Universe

Steady State Theory

- The universe is always expanding but maintaining a constant average density. A steady-state universe has no beginning or end in time.



Oscillating Theory

- The universe expands until the gravitational attraction of matter causes it to collapse back into a singularity gets crushed out of existence and undergo a bounce.



Big Bang Theory

- All matter and energy were compressed at a single point (singularity) at the time of expansion.
- The accepted scientific theory about the origin of the universe is based on multiple lines of evidence.
- It is one of the most popular attempts to describe the early universe.
- It was first proposed though not named, by Belgian astrophysicist and priest **Abb Georges Lemaitre** (1894-1966)
- The name "Big Bang" was coined by British astronomer **Fred Hoyle** in 1949.

Evidence That the Universe is Expanding:

1. Cosmological Red Shift

- It is used to describe how far away a distant galaxy is.
- **SPECTROSCOPY** - is the study of the interaction between matter and electromagnetic radiation as a function of the wavelength or frequency of the radiation
- **SPECTROSCOPE** - a device that measures the spectrum of light

2. Cosmic Microwave Background Radiation

- It is the leftover background radiation that fills the universe and can be detected in every direction. - Robert Wilson and Arno Penzias

3. Abundance of Light Elements -- Hydrogen, Helium, and Lithium

- Big Bang nucleosynthesis took place and produced protons, neutrons, atomic nuclei, and then H, He, and Li until 20 minutes after time zero when sufficient cooling did not allow further nucleosynthesis.
- Nucleosynthesis - formation of elements

Hypothesis on the Origin of the solar system

Nebular hypothesis

- The solar system was developed from a primeval nebula; **DUST and GAS**

Encounter hypothesis

- The theory assumes that the Sun was formed before the planet; **SUPERNOVA EXPLOSION**

Protoplanet hypothesis

- Slowly rotating gas and dust cloud dominated by hydrogen and helium starts to contract due to gravity.

EARTH

- Earth is the 3rd planet from the Sun.
- According to radiometric dating and other sources of evidence, Earth formed over 4.5 billion years ago
- Earth's gravity interacts with other objects in space, especially the Sun and the Moon (Earth's only natural satellite)
- Earth orbits around the Sun in 365.26 days, a period known as an Earth year.

EARTH SYSTEM

1. HYDROSPHERE

- The hydrosphere includes all the water parts on the planet. It includes water on the surface, sub-surface, and water vapor in the atmosphere.
- Water in the oceans and seas, including all the frozen water and ice (cryosphere). Lakes, lagoons, rivers, and ponds, as well as water in the water table beneath the surface of the earth.
- Cover more than 70% of the surface of the earth.



- The oceans and water bodies absorb the sun's energy and warm up.
- Transpiration by trees and Evaporation of surface water occurs.
- The water vapor in the atmosphere condenses (condensation) to form rain clouds and comes down as rain (precipitation).
- The rains fall back on land and into water bodies (run-off) again and they all run back into the ocean for the cycle to continue.

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Frederick Martin Brown



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