

UICI 2022: SCIENCE, TECHNOLOGY AND
MANKIND

COSMOLOGY: QUR'AN AND MODERN PERSPECTIVES

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WHAT IS COSMOS?

- Cosmos is the name used to all except God. It lead us to know the Creator Who creates the cosmos (Theologist)
- Referring to the earth and also the heaven (eg. Planets, power, etc)
- Natural Wonders of God
- Arabic Word: *'Alam* (pl. *alamin*)
- Cosmos antonym chaos

WHAT IS COSMOLOGY?

- A study on the creation of heaven and earth including the solar system and the universe
- The material which is in the universe -stars, planets, and man —did not come into existence by itself
- Despite of various theories of creation, nobody knows exactly how the cosmos is created

REASON LED MAN TO THINK OF:

- We know that everything is made of *matter*, but:
 - where did matter come from?
 - How did it get all over the universe in the form of planets and stars?
 - How did the complicated and delicately balanced solar systems and galaxies form?
 - What keeps them in balance?
 - And how did the laws which govern matter originate?

THEORIES OF CREATION

KANT-LAPLACE

O. SMITH

CHAMBERLAIN &
MOULTON

STEADY STATE

JEANS &
JEFFERYS

OSCILLATING

BIG BANG

BIG BANG THEORY

- Devised by George Gamow and refined by Edwin Hubble
- The entire universe, together with the dimensions of matter and time, came into existence as a result of a great explosion that occurred a long time ago. This event, known as "The Big Bang," is the catalyst for the creation of the universe from nothingness. This explosion, all parties in the scientific community agree, emanated from a single point some 15 billion years ago.

BIG BANG THEORY

- **Here is what the Big Bang theory teaches:**
- **When nothing gets together.** The emptiness is supposed to have gathered together in one place, and gotten so thick that the "nothing" exploded—and blew itself into hydrogen gas.
- **Laws appear.** The laws of nature somehow invented themselves during the explosion
- **Gas gets into clumps.** Then the outward exploding gas supposedly gathered itself into clumps.

BIG BANG THEORY

- ***A universe of explosions.*** The loose, outward flowing gas next decided to push itself into stars. Then all the stars began exploding in *super-nova* explosions. But, just before light rays from the explosions could reach our planet in our time in history, the explosions are said to have conveniently stopped
- ***Heavier elements made.*** Those explosions are supposed to have made all the heavier elements (those above hydrogen and helium).
- ***Rearranging time.*** In order to adapt to the theory, the supposed age of the universe has been pushed back to a theoretical age of 15 billion years, when the Big Bang is said to have occurred

DISPUTING BIG BANG THEORY

- **According to some scientists, the theory is a fraud.**
- **They have enlisted 42 reasons to disapprove the theory:**
 - **Nothing to explode it.** There would be no match, no fire to explode nothingness.
 - ***No way to produce stars.*** *There is no way by which gas could clump itself into stars, planets, and galaxies. Only after a star has been formed, can it hold itself together by gravity*

BIG BANG THEORY

- **No way to produce complex atoms.** Aside from hydrogen and helium, which are quite simple, there is no way that loose gas in space can form itself into complex atoms (elements above helium)
- **Elemental composition of planets and moons is totally different than that found in stars.** Scientists cannot explain why the stars primarily have lighter elements and planets especially have heavier ones
- **Random explosions do not produce intricate orbits.** Haphazard explosions could never produce stellar rotations or orbits

BIG BANG THEORY

- **Not a universe but a hole.** *Roger S. Penrose calculated that, if a Big Bang had occurred, it would have fallen inward on itself (into a black hole), not outward into the universe.
- **There are stars and galaxies all through space.** If the Big Bang had really occurred, the stars and galaxies would only be found along the outer edge of the gas flowage instead of throughout space.

THE OSCILLATING UNIVERSE

- Devised by *George Gamow, the research scientist and prolific science-fiction writer who, a few years earlier, had promoted the Big Bang as the only correct concept of origins.
- According to this idea, when the universe finally runs down, another Big Bang will get it going again. The difference is that the first Bang is matter exploding *out of nothing*, while subsequent Bangs will result from *matter contracting down* to a single point, and then exploding outward again

THE OSCILLATING UNIVERSE

- At some time in the distant future all matter will be pulled back together by gravitational force to explode and expand again, then be pulled back together to explode, expand, and return time and time again. The purpose of this theory is to explain how supposedly eternally ever existing matter has endlessly been recycled time and time again. This theory has been used to explain how matter exists without a beginning, without being created.

REFUTATION OF THE OSCILATING THEORIES

- [1] - *Running out of hydrogen*. Robert Jastrow, a leading scientist, explained that the theory is impossible since hydrogen, once used up, can never be restored
- [2] - *Stop and reverse*. The theory requires that all matter stop traveling outward, change directions, and go backward. But there would be no reason for this to happen.
- [3] - *Leaving its gravitational field*. The center of gravity, by that time (assuming an expanding universe), would be on the outer perimeter of the universe, not at its center—so there would be nothing to draw it back to where it theoretically came from.

REFUTATION OF THE OSCILATING THEORIES

- **[4] - Not enough matter.** There is not enough matter in the universe to cause it to collapse inward.—*p. 48.*

[5] - Getting to the point. Matter would not all rush to a common center and stop right there at a single microscopic dot. Like the other theories, this is science-fiction foolishness

THE STEADY STATE THEORY

- Devised by Fred Hoyle, a British astronomer with the assistance of Herman Bondi and Thomas Gold
- According to this concept, galaxies are continually disappearing while new ones are constantly appearing. Totally new matter is constantly inventing itself out of nothing! At the same time, other matter—entire constellations—are disappearing

THE STEADY STATE THEORY

- Seventeen years later (1965) Hoyle made a public statement, repudiating his theory as unsupported by the facts and totally false.
- He listed five scientific facts disproving it:
 - radio sources too dense
 - redshift measurements
 - amount of background radiation
 - helium to hydrogen ratio too high
 - structure of elliptical galaxies)

THEORIES ARE DISPUTED

- **Worthless theories.** Scientists themselves have written that all these origin of matter theories are meaningless.
- **The Sorry State Universe.** Thoughtful scientists admit that, if evolutionary theories of the origin of the universe were true, life would be purposeless and a continual misery.

THEORIES ARE DISPUTED

- **Violates natural law.** These theories violate known, unchangeable laws of matter and physics. Especially powerful is the *First and Second Laws of Thermodynamics*. (That is covered in detail in [The Laws of Nature vs. Evolution](#).) Because of those laws, all theories of matter, stellar origins, and evolution are totally impossible. Disorganized matter can never change itself randomly into highly organized materials, systems, or life forms. The *Second Law of Thermodynamics*, alone, refutes all possibility of any evolution of matter or living species.

WHAT THEY SAY?

- Shaikh Abdul Mabud: “ so the situation is beset with difficulties. Perhaps the origin of the universe will never be answered by science”
- Hannes Alfven: “ cosmology has always been and will by definition always remain a borderland between science and philosophy – some would say religion”

UNDERSTANDING THE COSMOS

- Only God knows the How of his creation of Cosmos
- *“I called them not to witness the creation of the heavens and the earth, nor (even) their own creation: nor is it for Me to take as helpers such as lead (men) astray”*

Al-Kahfi 18: 51

- Cosmos antonym Chaos
- *He is the Originator of the heavens and the earth. (Qur'an, 6:101)*
- God created this entire creation, a *creatio ex nihilo* by a mere command, “ He is who created the heavens and the earth in truth. In that day when He said “Be!” then it was”

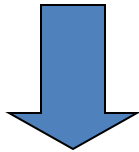
CREATION OF THE UNIVERSE ACCORDING TO THE QUR'AN

- *“Do not the Unbelievers see that the heavens and the earth were joined together (as one unit of creation), before We clove them asunder? We made from water every living thing. Will they not then believe? And We have set on the earth mountains standing firm, lest it should shake with them, and We have made therein broad highways (between mountains) for them to pass through: that they may receive guidance. And We have made the heavens as a canopy well guarded: yet do they turn away from the Signs which these things (point to)! It is He Who created the Night and the Day and the sun and the moon: all (the celestial bodies) swim along, each in its rounded course.”*

(Al-Anbiya' 21: 30-33)

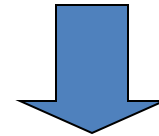
COSMOS

SIGNS OF THE CREATOR



- a testimony to the existence and majesty of God
- Natural wonders of God
- To be thankful for all the favours that man receives from his Lord

MADE FOR THE USE OF MAN



- **The utilization is for the**
- **Enhancement of man's true purpose in creation: to perform service (ibadah) to God**

COSMOS VS CHAOS

- *It is He Who has made the sea subject , that ye may eat thereof flesh that is fresh and tender, and that ye may extract therefrom ornaments to wear; and thou seest the ships therein that plough the waves, that ye may seek (thus) of the bounty of God and that ye may be grateful*

Al-Nahl 16: 14

- The corruption on the earth, on the land, and in the sea is due to man's action (al-Rum 30: 41)

END OF THE UNIVERSE

- Predictions for the end of the world :
 - The [Y2k bug](#), which was supposed to wreak havoc on [computer systems](#) and disrupt life as we know it.
 - [Astronomers](#) have calculated that given its present orbit, [asteroid \(29075\) 1950 DA](#) will come very close or collide with the [Earth](#) on [16 March, 2880](#).
 - Based on observation of other stars, science predicts that in about five billion years, our [sun](#) will expand into a [red giant](#), evaporating the Earth, and thus ending all life there

END OF THE UNIVERSE

- As we have stated above, scientists say that the creation of the universe began with a huge explosion. From this point, the universe has been expanding ever since. Scientists say that when the mass of the universe has reached a sufficient level, this expansion will come to an end because of gravity, causing the universe to collapse in on itself.

THE BIG CRUNCH THEORY

- The Big Crunch theory proposes that the universe, that began expanding with the Big Bang, will collapse in on itself with increasing speed. According to the theory, this collapse of the universe will continue until the universe has lost all its mass and turned into a single point of infinite density.

BIG CRUNCH THEORY

- According to the Big Crunch theory, the universe will begin to collapse slowly and will then increasingly pick up speed. At the end of the process the universe will have infinite density and be infinitely hot and small.

END OF THE DAY ACCORDING TO THE QUR'AN

- **That Day We will fold up heaven like folding up the pages of a book. As We originated the first creation so We will regenerate it. It is a promise binding on Us. That is what We will do. (Qur'an, 21:104)**
- **They do not measure Allah with His true measure. The whole earth will be a mere handful for Him on the Day of Rising the heavens folded up in His right hand. Glory be to Him! He is exalted above the partners they ascribe! (Qur'an, 39:67)**