

CHAPTER-3

EVOLUTION OF THE VISIBLE-UNIVERSE

Highlights about the chapter EVOLUTION OF THE VISIBLE-UNIVERSE in MATERIALISTIC UNIVERSE by Ramesh Varma.

Note: Chapter over EVOLUTION OF THE VISIBLE-UNIVERSE is not an encyclopedia. Challenger has illustrated only which relates to the new or contrary findings/understandings with some existing references to make the subject understandable.

- Pre-Universe from which the existing visible-Universe has been evolved was not empty (absolute nothing) but was filled with the thinnest possible state of the white-matter.
- No matter can exist if it is surrounded by absolute nothing; thus speculation that the visible-Universe has been evolved from a highly dense mass (Big-bang) of the size of a pea-nut or a speck is the joke with the Science.
- Nothing Big-bang like happened; Universe has been evolved from the thinnest possible white-matter which developed a massive black-hole, which triggered the formation of the visible-Universe.
- Universe is under oscillation from thinnest possible white-matter state to massive black-hole. Massive black-hole formed from only some part of the white-matter but not of the entire white-matter.
- Why the galaxies and the Universe have the shape of a disc? Query has been answered by the Challenger.
- What is resulting for the expansion of visible-Universe? Query has been answered by the Challenger.

CHAPTER - 3

EVOLUTION OF THE VISIBLE-UNIVERSE

EVOLUTION OF THE VISIBLE-UNIVERSE:

'Evolution of the Universe', 'Evolution of life on earth', and the form in which 'The God' exists, all are complicated subjects. So far no one has properly understood these and nor it is at sight in the near future and might be never because every one has evolved to his/her routine and is prejudice. Below mentioned illustrations may help to understand in simple term the 'Evolution of the Universe'. Other subject (Evolution of the life on earth and the form in which The God exists) has been explained to its best in the relevant segment of book (YOUNGAT 100).

BEFORE THE PRESENT VISIBLE-UNIVERSE; WAS SPACE EMPTY OR NOTHING EXISTED OR WHAT EXISTED?

To understand evolution of the Universe, Challenger has classified the Universe to two Universes; pre-Universe and the visible-Universe. Visible-Universe is inside the vast infinite pre-Universe. Existing visible-Universe has celestial bodies but whereas outer sides of this visible-Universe are surrounded by the vast infinite pre-Universe.

Nature has its principle that it dislikes absolute-nothing. Thus under this Nature's principle, if we take away the Moon to some where, we can't say nothing is there; the space occupied by the Moon has been occupied by the white-matter. So, now where our Universe exists that too was not the space with the tag 'Absolute-nothing'.

So before the present visible-Universe (Universe with objects) the space of the existing visible-Universe was filled with white-matter in its thinnest/rarest form.

OBSERVATION/UNDERSTANDING OF THE EXTREMELY THINNEST POSSIBLE WHITE-MATTER-PARTICLES:

Consider a space equivalent to a galaxy. Now consider it as empty, free of any gas and also there is no white-matter particles; it is absolute-nothing space. Now consider releasing of an atom/molecule of a gas into it. This gas atom would expand and would be lost in the supposed vast space; this atom of gas on expansion would fill the whole space equivalent to the supposed galaxy.

Similarly even more and more thin white-matter can be considered. Such white-matter would be quite different from the present known or observed white-matter in our space (visible-Universe).

Author has observed similar white-matter that would be in the pre-Universe prior to beginning of the visible-Universe.

POINT FOR CONSIDERATION:

World is considering under Big-Bang theory expansion of an extremely dense mass of the size of a pea-nut to the existing visible-Universe, which is not possible. (Because under Nature's law nothing extreme denser substance of matter could exist if it is surrounded by absolute-nothing) This fact concludes that there was nothing like Big-bang but the above said thinnest possible white-matter-particles as observed by the Author has some base to consider for the formation of visible-Universe.

STAGES OF EVOLUTION OF THE VISIBLE-UNIVERSE:

To understand better, Author has classified different stages from pre-birth of the visible-Universe to its future.

STAGE: 1 Prior to formation of the visible-Universe, space was not empty as stated above; it was filled with white-matter particles. Size-grade of the white-matter particles was quite different from the existing grades. Now such type of thinnest possible white-matter-particles would only exists at the extreme end of the pre-Universe.

STAGE: 2 Before understanding stage No. 2; some factors need their understanding which compact any substance. These factors are the gravity, surface-tension and attraction between the same substances etc. Any of these factors or all these factors together can work to condense a substance and even white-matter particles get compacted to other states of the matter by the said factors.

Thinnest possible white-matter-particles had its own mass, like other form of the matter. Pull (attraction) of the thinnest white-matter was towards its centre due to the said factors. This centre after developing its mass to a stage started pulling white-matter-particles. It took billions and billions of years, years beyond our imagination to reach a stage to develop this centre as the core for the visible formation of the Universe.

STAGE: 3 Said core developed denser and further denser thus got greater force by attracting white-matter-particles. White-matter-particles started gushing toward this core resulting to develop so dense core that it took the dimensions and property of the biggest possible 'Black-hole'.

During very first initial stage, gushing-in-white-matter-particles may have traveled in almost straight path with some slow speed towards the core. As the core started becoming denser, gushing-in-white-matter-particles adopted a slight spiral path due to the resistance of white-matter medium and the core started spinning. Bend of the white-matter rays and spin speed of the core kept on increasing. Because the core could not cope with the accelerated speed (quantum) of the gushing-in-white-matter-particles the gushing-in- white-matter- particles had to wait for their turn. Thus the entire gushing in mass developed to a spiral shape.

Due to increased gushing in speed and greater quantity of white-matter-particles and resistance by the core to accept more white-matter, some form of matter developed in transit from the white-matter-particles due to high compression but prior to reaching this developed dense core (core-developed-black-hole). This developed matter too spun along with white-matter-particles to put an angular impact core-developed black-hole. This angular impact increased the speed of spin of the 'core-developed- black-hole'.

The whole matter of the universe-could never condense/compact to any one body irrespective of its any size. The gushing in white-matter density at the core developed to its greatest and at the out side edge of the pre-Universe, thinnest possible white-matter like condition developed, but never developed absolute-nothing.

Biggest ever developed 'black-hole' reached to a density level beyond which it could not sustain more white-matter-particles or any matter thus exploded on reaching at a saturation point of its explosion.

STAGE: 4 This biggest ever developed black-hole on its explosion, threw out matter in space. The gushing in white-matter-particles and some matter developed from white-matter-particles while on their way to the core collided with the matter of the exploded black-hole (core).

These exploding bodies started generating bulk white-matter-particles rays. Generated white-matter-particles rays started creating thrust on the other bodies, helping these bodies to drift back in space. At the other end outer edge of the pre-Universe developed to thinnest possible white-matter and this situation started pulling back the white-matter-particles. Thus revert process towards the outer edge of the pre-Universe was restored which was earlier towards the centre from the ages.

It took billions and billions of years to reach a satisfactory level of collisions and explosions. Which created our visible-Universe?

STAGE: 5 Now in the existing visible-Universe, white-matter-particles are being generated by most of the celestial bodies. There is thinnest possible white-matter like condition in the outer edge of the Universe. Both these factors, i.e., white-matter-particles' rays and thinnest-possible white-matter like condition are resulting in the gushing of white-matter-particles toward outer edge of space. This gushing out white-matter-particles are putting thrust on the celestial bodies (galaxies) resulting to expand visible-Universe outward in all the directions.

Galaxies are being drifted apart from each other. Lesser gravity pull between them is resulting the white-matter-particles' rays force to act with more power to drift the galaxies outwards in outer space.

With the passage of time, speed of drifting apart would keep on increasing with accelerated rate.

STAGE: 6 Expanding universe matter would be expanding to its greatest till existing white-matter of visible-Universe becomes too thin to support visible matter. At this thinnest white-matter stage, the existing visible matter would explode to convert its matter in the form of white-matter-particles. Further again all the white-matter-particles would split in its thinnest possible form in the pre-Universe. Again pre-Universe would be filled with the finest form of white-matter.

Explanation for stage-6:

Temperature and pressure over a matter result in transforming a matter from one state of the matter to another. If a matter is put under increasing temperature, a stage at some degree of temperature would come that solid would get transformed to liquid; liquid to gases and gases to white-matter.

Every matter is subject to compression and expansion depending upon the pressure over it. Pressure/vacuum over a matter from plus to minus state can also transform a state of the matter to another state. A visible matter is subject to pressure by its own atoms/molecules/structure and also by the external pressure of the liquid or of the gas. White-matter too poses its own pressure over every matter. Explosion/fusion is a situation to convert one state of the matter to another.

Pressure of the white-matter over the visible matter regulates the explosion/fusion of the black-holes. Greater pressure of white-matter, would allow the black-hole to go massive at its exploding point but if white-matter pressure is reduced over the black-hole, it would explode pre-mature at much lower size/mass.

Universe is expanding thus white-matter pressure is reducing day by day over the celestial bodies (matter). A day would come when white-matter pressure in the central visible-Universe would go too low to sustain any visible-matter. At that stage visible-matter would explode to yield white-matter leaving nothing to see.

STAGE: 7 The gushing outward white-matter would create a thinnest-possible white-matter hole in the centre of the visible-Universe. Momentum of the outward gushing white-matter too would create further greater thinnest possible white-matter like conditions at the centre (core).

STAGE: 8 This thinnest-possible white matter hole like condition developed at the centre would start pulling back white-matter-particles towards the centre. This centre again would become a denser matter core with the help of compacting factors and would suck more white-matter-particles. Thus again a stage No. 3 would develop to form again new visible-Universe.

Universe was never at rest and the existing visible-Universe too would never be at rest, it would keep on re-building. It is an oscillating make-break universe.

SOME THEORIES RELATED TO THE BIRTH OF VISIBLE-UNIVERSE:

In real sense no one yet knows firmly that how visible-Universe evolved, how our solar system came to its existence and where from we came or how we originated?

Regarding evolution of the visible-Universe, there is numbers of theories and believes. Out of these, only two theories are being considered by the World, i.e. Big-Bang and Steady-State theory. In addition to it now, what the Author had observed has been explained to its best in the relevant paragraphs/ chapters.

All the theories contain numbers of understandings/speculations, some may be similar to the other theory too but the prime and major concept of each theory is quite different to the other.

Author has concluded that the existing theories (i.e., Big-bang and Steady-State theories) are wrong which have been observed and proved false as under.



BIG-BANG THEORY:

WORLD:

FROM NEWSPAPER, YEAR-2005

The Big Bang Theory

OUR solar system occupies a minuscule part of the galaxy we call the Milky Way. There are millions of such galaxies.

In 1929 the American astronomer, Edwin Hubble, proved that the galaxies are moving apart from one another at tremendous speeds.

Scientists had known this at least a decade before Hubble proved it. In 1922 a Russian mathematician, Alexander Friedmann, had pointed out that if the universe was expanding because the galaxies were moving apart, the galaxies must have been closer to each other a hundred years earlier, still closer a thousand years earlier, still closer a million years earlier, and at one time they must have all been part of one great mass.

In 1927, a Belgian astronomer named Georges Lemaitre who was unaware of Friedmann's work came to the same conclusion as the Russian. He called the original mass from which all the galaxies took birth, the cosmic egg. He said the cosmic egg had exploded, flinging all its matter out, and the fragments (galaxies) were still moving apart because of the force of that explosion.

The theory was popularised in the 1930s and 1940s by the Russian-born American scientist George Gamov. He gave the primeval explosion the name 'Big Bang' and the theory came to be known as the Big Bang Theory.

The Big Bang theory does not explain how the cosmic egg and therefore the universe came into being. It only offers an explanation for the present state of the universe.

FROM NEWSPAPER, YEAR-1998

Birth of universe

LONDON: The universe may have started as no bigger than a pea before the big bang which created the universe 12 billion years ago, according to a new theory from British scientist Stephen Hawking. Hawking, the wheelchair mathematician and author of the best-selling "a brief history of time", believes the pea like universe only existed for a fraction of a second before the big bang.

The Big-Bang theory is the current popular and widely held theory of the evolution of the visible-Universe by the World. This theory suggests that the visible-Universe came into being from a state of extremely high temperature and density at least 10 billion years ago. The whole energy was condensed to such a low volume that its size was almost equal to a peanut or a speck. This state remained in existence for a fraction of second. The said matter on its explosion yielded the existing visible-Universe.

Some Experts suggest that this extremely small sized, extremely high dense matter did not explode; but started expanding and is still expanding. Our solar-zone is still expanding being a part of the Big-Bang. Thus Big-Bang occurred every where.

CHALLENGER:

Why most Physicists/Astronomers were/are of the opinion that the visible-Universe has been formed by the Big-bang.

Some believe: That the Universe has been formed by the explosion of extremely condensed matter equivalent to the size of a pre-nut.

And the remaining believes: That the Universe has been formed by the expansion of highly condensed matter equivalent to a pea-nut without involving to any explosion.

There may be a few: who do not believe in the big-bang.

EXPLANATION:

Physicists have observed that the visible-Universe is under oscillation of expansion and compactness. Now the visible-Universe is expanding, so prior to expansion phase, Universe must be under the process/phase of getting compact. From this they observed that Universe matter on being compacted got a size of a pea-nut. After attaining this size matter had restored reverse phase i.e., phase of expansion, some Physicists understand beginning of present Universe by the explosion of compacted Universe and some Physicists believe beginning and present state of the Universe as simple expansion of the compacted matter.

Challenger has concluded that both the understandings with the Physicists are wrong because no matter in the said dense state can exist, if it surrounds absolute-nothing.

COULDA BIG-BANG OCCUR?**AUTHOR HAS OBSERVED AND CONCLUDED THAT:**

- No Big-bang can occur. The following few illustrations can prove that there was no Big-bang, never could happen and nor would be there in the future.

- The whole matter of the Universe can't be compressed or condensed to any state by leaving nothing (absolute nothing) out side.*** This great difference in pressure can't exist, however big volume we consider of the dense mass and the question to condense Universe to a size similar to a pea-nut does not arise. Hence no Big-bang has ever occurred.

- Another reason that there was nothing like Big-bang:**

One reason said above that extremely compact matter of the Universe can not exist if surrounded by absolute nothing and the other reason is that a matter cannot be compacted beyond a limit even if it is surrounded by white-matter, its lightest components would start escaping/going out to make the compact matter unstable.

Example: hold a rubber balloon filled with air with a fine and short length thread at the bottom of a deep swimming pool. Start filling the tank with water, a stage would come that the thread which is holding the balloon can not withhold the balloon due to gain in tension over the thread by the increasing pressure of water at the bottom thus balloon would break the thread and come out at the surface with accelerated speed.

Similarly on making a matter more and more compact, matter would reach at a stage at which its some lightest component (a kind of white-matter) would escape, making the remaining matter structure unstable and would release all the matter in the different forms (kinds) of white-matter. (Example: Black-holes)

That is why there is a limit that beyond certain plus and minus limits of compactness a star/Sun and a black-hole cannot exist. If such celestial bodies which are much smaller than the compact matter understood under the Big-Bang theory cannot exist under high compactness then, how the supposed/speculated matter of Big Bang can exist. Hence there was nothing like Big Bang which has resulted the beginning and formation of the existing visible-Universe.

- Speculated shape of the Big Bang also proves that Big Bang theory is wrong and is over the false base.**

Astronomers/Physicists have noticed that existing Universe forms a shape of some what flat-disc with small budge at its centre, so a speck i.e., a small dot on expansion would form a Universe similar to existing shape of the Universe. On similar grounds shape of very small objects like pea/coin/cosmic-egg for the Big Bang mass has been speculated by some of the Experts.

Speculated Big Bang mass was extremely hot and also has extreme density. Any hot molten mass can not adopt any other shape other than a sphere. Further, dense mass of the Big Bang even in cold condition can not adopt any other shape other than a sphere as explained below.

A stone or a particle can adopt any shape but a planet formed of the stones and dust particles would adopt only spherical shape. Planet adopts spherical shape not by its huge size but by the increase in its gravity. So if a small dot or a mass equivalent to the volume of a speck or pea or coin or egg has density so great (equivalent to the total mass of Universe), obviously it would have gravity too great. This great gravity would transform any smallest supposed/speculated mass to a perfect sphere. Perfect sphere on its expansion can not form the Universe of the shape similar to a disc but would expand in sphere shape only.

Conclusion:

Because of the said reason that Big Bang theory should not get a set back just at its entry point, every concerned who advocates the speculation of Big Bang tried to conceal this fact from the World thus have never used the word tinny densest ball for the Big Bang mass. Among them most concerned must have never given any deep thought over the said **proved shape** as, they were/are just blind followers.

This only one proof about the shape of the mass of Big Bang is sufficient to kill the issue that Universe has not been beginning by the speculated Big Bang.

NOT THE DENSE BIG-BANG MASS BUT A MASSIVE LARGE BLACK-HOLE COULD EXIST THAT TOO ONLY ONCE IN EVERY UNIVERSE CYCLE:

Author had observed that a 'massive large black-hole' could exist that too only once which resulted the formation of the Universe.

Before getting answer of the said query, some facts need their understandings.

- Author had observed that no matter (solid, liquid or gas) can exist unless it is surrounding by the white-matter. It is the white-matter pressure over a body which determines its stability; higher the white-matter pressure, denser the mass. Reducing white-matter pressure would develop a 'critical explosive stage' of the mass. Further lowering of white-matter pressure would develop '**critical explosive stage**' for the matter.

- Escaping white-matter-particles rays from the Sun are creating pressure/thrust over the surface of the Sun. This white-matter pressure is keeping the Sun mass compact and denser.

- Over the Earth all living being and the matter is getting air-pressure. Under sea-water also all the living creatures and the matter too is subject to water pressure. We feel this air or water pressure only when we had a change of the pressure than to which we are habitual (designed). Under vacuum or under high pressure of the water below the sea, what would be our state, we can imagine. Similarly white-matter too is exerting pressure over us, but we can't feel it and there is no way to regulate white-matter pressure over us to judge or to feel the difference.

- Now the visible-Universe is in the expanding phase. Due to expansion of the Universe, white-matter pressure is reducing over the celestial bodies. As the time would pass, black-holes of lower and lower magnitudes would be formed and the black-holes formed would reach early to the 'critical explosive stage' for explosion.

- If we count back period from now, during the past black-holes were of higher and higher magnitudes and the 'massive black hole' was formed when the visible-Universe had just originated.

• **WHAT DEVELOPED THE 'MASSIVE BLACK-HOLE'?**

During formation of the visible-Universe white-matter was gushing in towards the centre i.e. over the dense-core. That gushing in white-matter formed a dense and high-pressured white-matter atmosphere over the developed dense core mass. This resulted in the formation of the 'massive black-hole'. A stage developed when gushing in white-matter turned weaker in density and pressure as compared to the pressure of the mass formed in the 'saturated massive black-hole'. This stage generated the reason to explode the mass of the 'massive-black-hole' formed. Our universe was born and the matter formed was re-thrown and scattered in the space towards all directions to reunite to form visible-Universe.

CONCLUSION: Only one 'massive black-hole' is possible at the beginning of the formation of the visible-Universe. The whole matter cannot be compressed to any size and to presume its size equivalent to a pea-nut or speck is a joke with the science.



If big bang had occurred 14 billions light years ago; is the size of universe calculated/understood as 93 billions light years across is correct?

World:

From World renowned magazine Astronomy issue April, 2010.

The Bib-Bnag

According to Big-Bang cosmology, the universe began in a hot, compact state and has been expanding and cooling for the past 13.73 billion years, With expansion and cooling came formation of large-scale structure like galaxies and galaxy clusters.....

From World renowned magazine Astronomy issue March, 2010.

How did the big-bang happen?

We know the Universe began with a "Big Bang" a powerful explosion of space-time that sent matter and energy reeling outward— not into empty space, but into nothingness.....

How old is the Universe?

Over the past century, Astronomers have deduced several ways to estimate the age of the Universe. By using each of these methods, they can draw a bead on a region of time that probably represents the Universe's age. The answer is much more accurate than it was 20 or 30 years ago, but it may never be certain.....Astronomers can determine the age of the Universe by using a simple mathematical equation. The most often-cited figure for the Universe's age using this method (widely thought to be the most precise) is 13.7 billion years.....

How big in the Universe?

.....Astronomers stages a second great debate in 1996. The age and size of the Universe are related, and both depend on the Hubble constant.....Using the most powerful telescopes, Astronomers can see galaxies 10 to 13 billion light-years away. (A light-year equals about 6 trillion miles [10 trillion kilometers]. But the "horizon" of visibility in the cosmos stretches more than just some 20 to 26 billion light-years because space itself is expanding. So the edge of the observable universe must be at least 46 billion light-years away from us ---that's called the comoving distance or particle horizon. The visible universe, however, is most likely a sphere of at least 93 billion light-years.....

From Internet February 2010.

Question: What is light-year and how is it used?

Answer: A light-year is a unit of distance. It is the distance that light can travel in one year.....

From Internet February 2010.

Faster Than Light Travel

.....Faster-than-light travel may be the only technology that could save humanity from extinction. But if Einstein was right, faster-than-light travel will never happen.....

From Internet February 2010.

Can Matter Travel at Light Speed?

Unless the basic principles of the universe discovered by Einstein are proven wrong, which hardly any physicist would expect, the short answer is "no.".....

Challenger:

World understands that Universe has the beginning 13.73 billion years ago with the explosion of a big bang (highly condensed matter of the size equivalent to a pea nut) but Challenger has concluded and illustrated under the relevant chapter that Universe was not evolved by the explosion of a big-bang but has been formed from the finest possible matter as illustrated under the relevant chapter. However for the explanation over the above said World's understandings/query, it is presumed that Universe has the beginning by the explosion of a big-bang.

From above said data, Challenger has not been able to understand that how Universe can grow to a sphere of 93 billions light years, if it is 13.73 or 14 billion light years old. Light in a year can travel a distance of one light year and in 14 Billion years, it can travel only 14 Billion light years. Further, no matter on its explosion from the big bang can travel faster than the speed of light. With this understood fact Universe consisting of light/rays would be a sphere of $14 \times 2 = 28$ billion light years across but farthest visible matter would be much nearer to the site of the big-bang than its farthest light/rays reach end. Universe is expanding; this expansion can not be a different part (phenomenon) than the movement of matter outwards by the explosion (or expansion) of the big bang. So, if big bang had occurred 14 billion light years ago, Universe can not develop greater than 28 Billions light years across. If the Universe is actually 93 billion light years across, then where is the error or its justification?

Concerned are requested to give the reason to justify the stated data information about the age and size of the Universe with respect to the speed of light and speed of the ejected matter. But the Challenger has concluded that there was no big-bang thus its speculated age is false.



STEADY STATE THEORY:

This theory suggests that universe had no beginning that it has always existed and will always exist. There are some facts which support this and some discard.

DOES STEADY-STATE THEORY HAVE ANY SUPPORT?

Nothing visible can be from the beginning, any visible thing has to be created from some thing and the some thing is always the finest possible matter, to be presumed like nothing, but not absolute nothing.

Further in this universe nothing could be stable. Every smallest form of the matter to the large one is in the process of make and break. Thus this theory has no base hence a false theory.



SOME MISCELLANEOUS OBSERVATIONS AND UNDERSTANDINGS:

AGE OF THE VISIBLE-UNIVERSE:

World:

Astronomers are of the view that Big-Bang occurred 10 billion years ago, which is considered the age of the visible-Universe.

Challenger:

Whether Big-Bang occurred or a largest ever possible Black-hole exploded to make the beginning of the visible-Universe, the period 10 billions years seems to be too less. Age of the visible-Universe must be in multiple to it. Author concluded that:

- Astronomers are observing distant objects. Most of the distant heavenly bodies are almost at a far off distance from which light or other cosmic rays take time equivalent to this period i.e. 10 billion years to reach on earth.
- Any solid matter could not travel faster than the speed of light. How the Big-bang body which was as per the Physicists of the size not more than a peanut or a speck on expansion drifted scattered matter to such a great distance from which now light takes 10 billion years to reach the Earth. More over some heavenly bodies might be far away than the said period/distance. Also the expansion concept other than the explosion concept could not answer the said query.
- So age of the visible-Universe, need rethought keeping in view the speed of light and the speed of the visible solid matter that could travel in space.

FATE OF THE VISIBLE-UNIVERSE:

World:

It has been suggested that the universe is actually oscillating. Now the universe is expanding. The contraction again will end in another Big-Bang and subsequent expansion, this cycle to repeat after every 80 billions years.

Challenger:

Some scientists/Astronomers had not agreed to this, they put a major drawback to this idea of oscillating universe that to stop expansion, gravity must overcome the outward momentum of the galaxies. Density of the matter in the universe does not seem to be great enough to produce a gravitational contraction. Many astronomers believe that there are other huge bodies which are invisible, this missing mass would be enough to create gravity to gain upper hand to halt the expansion of the universe. Some suggested that the universe will keep on expanding forever and ever.

- The universe is oscillating as explained earlier.
- World does not know understand white-matter yet and also that which force is resulting in the expansion of the visible-Universe and which force or the circumstances would lead to shrink back the now expanding universe. All the factors have been observed by the Author and have been explained earlier. (It is the white-matter-particles' thrust generated by the existing celestial bodies aided by the thinnest possible white-matter like conditions at the outer edge of the universe, which are expanding the visible-Universe. Contraction would result when centre of the Universe would develop condition like thinnest possible white-matter as illustrated earlier under this chapter).

What is common between the Black-hole and the Stars (Sun)?

- Black-holes suck white-matter to convert it to understood states of the matter, whereas stars transform understood states of the matter to white-matter.

• Sucking in white-matter by the Black-holes adopt, a shape of spiral, like de-coiling; whereas release of white-matter by the Stars (Sun) is like expanding coil.

• Both the formations form spiral shape of white-matter because of the factor 'Resistance by the medium'.

SHAPE OF THE VISIBLE-UNIVERSE:

World:

World does not know that why the shape of the Universe is like a disc.

Challenger:

Every galaxy has massive cluster of stars (SUNS) at its centre. Influence of their materialistic rays is in all the directions but because these stars (SUNS) have the spin, so effective range of the rays is more over their equatorial planes than towards their poles. Further other stars (SUNS) of the galaxy are of lower magnitude than the central massive stars (SUNS). These stars with their planets (family) are over their equatorial-plane. Massiveness of these stars over this plane keeps on decreasing towards the end of the galaxy. This system of arrangement of stars (SUNS), planets, objects and dust etc give a shape to the galaxy like a disc with a bulge at the centre.

Universe is composed of the galaxies, thus all the galaxies give together a shape to the Universe that of a disc.