

Theory Of TIME Singularity & Concept Of Multiverse

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Abstract: Let us not miss understood TIME with “time” which we use in daily parlance. The TIME i am discussion is not ticking of clock or passing of movements, it is not aging in human beings or in plants. TIME is not changing of seasons and the passing of days & years on earth. TIME is absolute infinite. TIME is not past, present or future. It has no direction. TIME was there before the existence of universe and will be there after the end of the universe. TIME is absolute never changing. It has singularity, nothing can escape from TIME. TIME is much denser than anything else in the universe, but with zero mass. It is invisible, unique, even light could not pass through TIME. TIME can be resembled like a thick peace of rubber which has enormous elasticity. TIME keeps and maintains our universe and the multiverse within. TIME allows expansion and contraction of our universe & multiverse. The universes flourish & deteriorate inside the TIME. This is never ending process inside the TIME. TIME is the home of our universe & the multiverse.

Keywords: TIME, Space time, Multiverse, Dying universe, TIME membrane, Expansion Halt, Dense matter, Contracting universe, Merging universe.

I. TIME

The entity of TIME is different than that of the space time or the time we use in daily parlance. TIME is unrevealed. We should not put up with a resemblance to the TIME with time. We on earth or any part of the universe are concerned with the time & space time. The time & space time floats, it has direction. It never stops. It is also called arrow of time, because it floats forward only, hence time & space time is having floating entity. The TIME on the other hand is not known to us. Let me try to understand the TIME which is yet to be understood by the world, because we are not fully acquainted with the mysteries of the universe. The TIME is static in nature. It does not float. It does not have any direction. It is there, it was there, and it will be there. TIME is ubiquitous and has absolute singularity. There is nothing in this universe which can escape for the TIME. TIME is permanent, absolute and has highest degree of singularity. TIME is not comparable to anything in this universe. TIME is unending; it will remain after the end of the universes.



Fig: 1 Imaginary representation of TIME

Figure 1

TIME is static, dense and dark and has elasticity. TIME is unique; its transparency does not allow the light to pass through. It is invisible. It has zero mass. The TIME is much more dense than any matter in our universe or in the multiverse, no star or planet is denser than the TIME. The mass of the TIME is equal to zero. The density of the TIME is so much that all the gravitational forces in the universe lies with it. Its gravitation can be measured by the space time warping and curvature caused by the massive planets and stars in the universe, because of its zero mass it has high elasticity. The density of the TIME is so high that nothing could escape

from it. No matter in the universe can penetrate into the TIME membrane unless its density is more or equal to the density of the TIME. The stars & planets can cause warping or distorting up of TIME, but cannot enter into it. The density of the TIME can be seen by way of gravitational force on earth, when the space time is curved the curvature of the TIME puts a pressure upon us and forces us to stay keep on the surface of the earth. There is nothing in between TIME and space time. The TIME membrane which is faced towards the hallow space of universe is called space time, because one side of it is static and the side which faced towards the universe inside is floating, it has direction. It is also called arrow of time. It has direction of flow, because due to the expansion of universe the TIME was forced to warp inside and allows hallow space for universe to flourish. The high elasticity of TIME allows the universe to expand inside. The hallow space within TIME in which the universe is expanding is called Space time. It has direction and it flows with the expansion of the universe. The gravitational force of heavenly body depends upon the mass and the density of the planet or a star. The mass and density of the planet or a star caused the curvature on TIME membrane, the deep curvature or dimple in the TIME membrane, so is the gravitational force of that planet or the star.

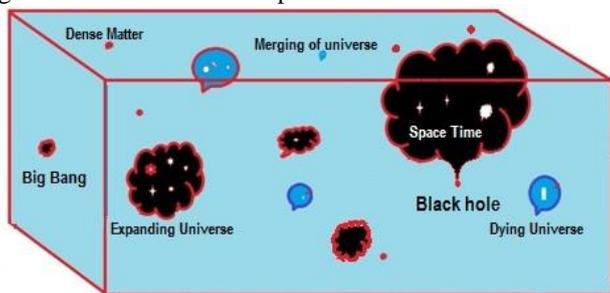


Fig: 2 Imaginary representation of TIME and multiverse inside.

Figure 2

This is the imaginary representation of TIME and different stages of multiverse inside the TIME. The TIME is mother of everything inside. TIME produce and destroys universes within. This is never ending process inside TIME. TIME has infinity in producing and destroying of universes. TIME was there before the big bang and TIME will be there after the end of universe. The universes or multiverse inside the TIME are finite. They have defined start and end inside the TIME. The starting and end of every universe inside the TIME is linked with the space time, which floats inside each universe or multiverse. The force and the velocity of the big bang internally push or warp the TIME membrane. The hallow space caused by the big bang inside the TIME is the universe and the space time flows in it. The expansion force of the universe further pushes warps or drifts TIME inside the universe, and produces more and more hallow space for the universe. This hallow space gave birth to the space time. Space time is finite within infinite TIME singularity. The space time floats till the expansion of the universe achieves maturity, or we can say when the force of expansion and the pressure mounted upon the universe from the TIME is equal.

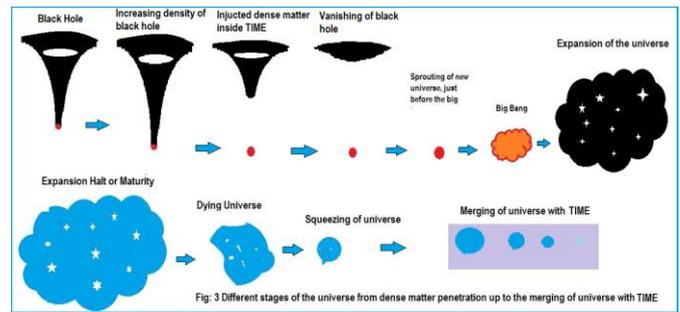


Figure 3

The above figure depicts the different stages of universe from birth to end. Every universe in the TIME starts from the black hole and ends with the merging of with TIME. As we know the dense matter like neutron star when borne makes black hole in the TIME. The density of the neutron star warps the TIME so deep that it reaches near to the singularity of TIME. This deep curvature of the black hole attracts myriad stars, plants and other matter of the universe. Ever thing which comes into contact with the black holes is swallowed or goes inside it, even light could not be escaped from black hole. Everything which goes down inside the black hole crosses event horizon of black hole is lost from this universe. Nothing comes out of black hole, which crosses over the event horizon. Since the matter which is swallowed by the black hole from the universe further add to its density. This continuous process of increasing density inside the black holes increases the depth of black hole in the TIME curvature. This further density drags the curvature of black hole more deep. The matter inside the black hole gets denser and denser as the black hole attracts myriad stars, planets of the universe. The density of the black hole increases, when it is more or equal to the density of the TIME, the dense matter cuts the TIME membrane and enters into the singularity of TIME. Soon the matter is injected into the TIME, the pressure caused upon the TIME membrane is released. The curvature of TIME caused due to formation of black hole vanishes, and finally black hole is gone. The dense matter produced by the black hole remains inside the TIME singularity, till it gets germinate/ developed inside the time, like a seed inside the soil. The processing & development of the dense matter takes place inside the TIME, till the stage of big bang comes. The stage of big bang inside the TIME warps or pushes the TIME membrane inside internally and makes a hallow space time for a new borne universe. After that the expansion of the universe begins like our universe. then the universe pass through various stages, finally the universe reaches the stage of maturity where from the further expansion is not possible because of reduced energy level of the universe. This reduced energy level of the universe caused the expansion halt in the universe. After the expansion halt, the next stage of dying universe comes into being. The universe will be rolling back. There won't be backward time flow in the universe. The universe will be squeezed from the backward pressure of TIME. The TIME membrane pushes back the universe and all the debris inside the universe is then squeezed by the TIME membrane. The squeezing of the dying universe finally merges with the TIME, and there will be the only TIME left.

II. FLOATING OF SPACE TIME OR ARROW OF TIME

The expansion of universe creates empty space by way of drifting back the internal TIME membrane. This hallow space of universe allows to float the arrow of time within TIME singularity. This flowing of time is called space time.

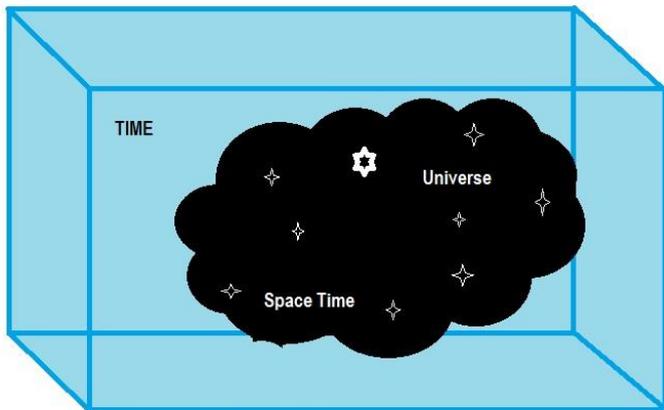


Fig: 4 Shows TIME & Space Time.
Figure 4

Space time is not infinite it has started with the big bang and it has its definite end till the universe stops its expansion process or expansion halt takes place. The arrow of time flows forward only. Some says one can go backward in the space time, which is not possible. Because the entropy moves from low to high will not be following the reverse path. The arrow of time will go up to the final expansion phase of universe, till the expanding energy of space time will be equal to the pressure mounted on TIME membrane. This will halt the expansion of the universe. The stars will no longer produce energy. The black holes will vanish. This would be the maturity stage of the universe

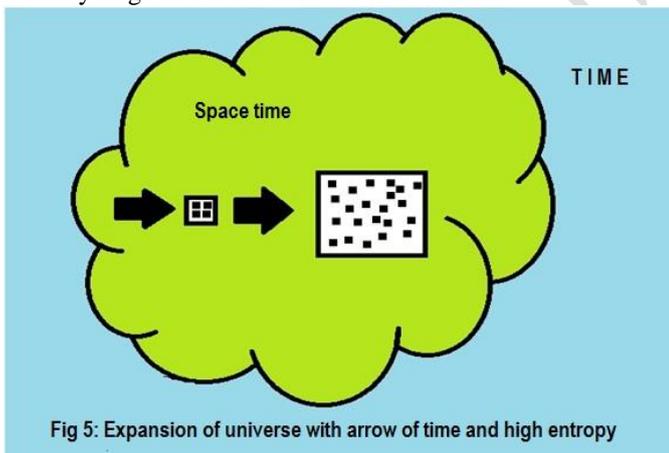


Fig 5: Expansion of universe with arrow of time and high entropy

Figure 5

III. BLACK HOLES

Black holes in the universe warp deep into the TIME. This deep warp or bend caused in the TIME membrane is due to the very dense matter or formation of neutron star. This intense density because of deep curvature in the TIME attracts solid mass and other cosmic gases including light into the temporary singularity of the black hole, because the curvature of black hole is near to the singularity of TIME. It is called

temporary singularity of the black hole. Black holes have never absolute singularity like that of the TIME, when the singularity of black hole reaches equal to the singularity of TIME. The TIME membrane got punctured and the dense matter of the black hole goes deep into the TIME and the emptiness of black hole is stretched back into the space time. This is vanishing of black hole from the universe. The black hole attracts and swallows stars planets and the other cosmic matter deep without any exhaust or a little. This increased density of the black hole exerts more and more pressure on the TIME membrane till it penetrates deep into it. Soon the black hole becomes weight less or density less the curvature of the TIME membrane comes to end, because now there is nothing inside the black hole which could stretch deep into it, and the curvature caused in the TIME automatically comes back due to back word pressure & the black hole vanishes from the universe. This injected dense matter of black hole into the TIME membrane is now like a seed for new and upcoming universe inside the TIME.

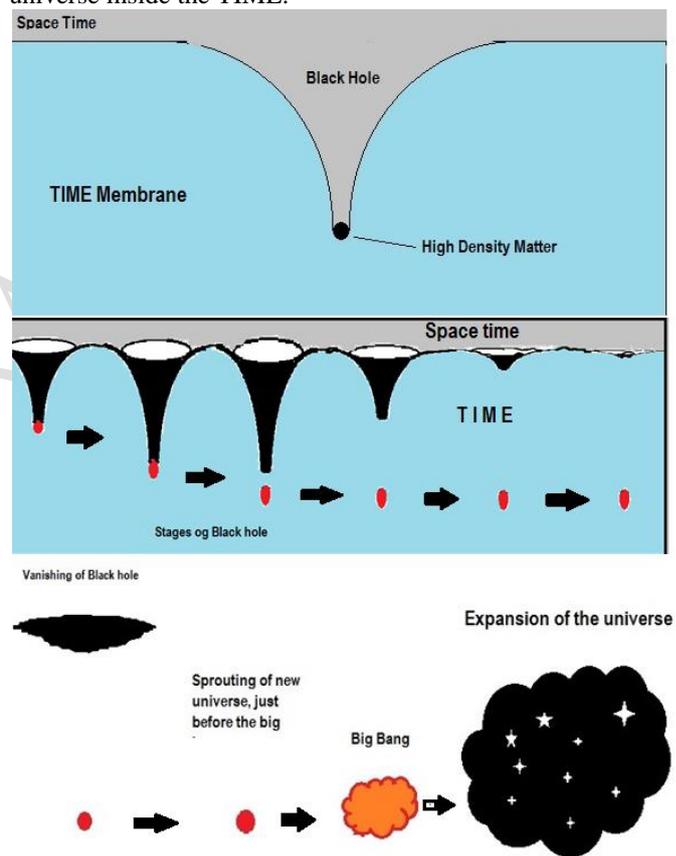


Fig: 6 Stages of universe before big bang

Figure 6

Black hole is like a factory which produce a seed for new universe and penetrate/ injects deep into the TIME that ultimately becomes another new universe or the universe like ours. Our universe produces myriad black holes these back holes produces dense matter like seeds for new universes / multiverse.

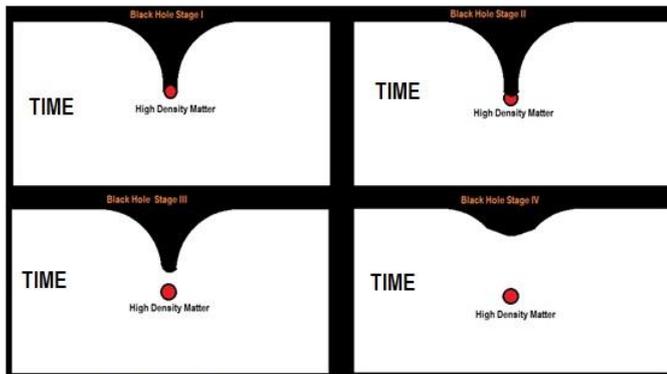


Fig 7: Stages of Black hole

Figure 7

In first stage of black hole the dense matter is placed normally deep into the curvature caused by the black hole. Since the black hole attracts stars and planets of the universe and swallows everything which come near to it or which cross the event horizon does not come back out of it. The swallowing of everything from the universe caused the dense matter within black hole further dense. This further density warps more deep into the TIME membrane. The TIME membrane come under tremendous pressure and finally when the density of matter inside the black hole is more or equal to the density of TIME the insertion of dense matter into the TIME takes place, which is shown in stage II of black hole. When the dense matter of the black hole completely enters into the TIME singularity, the dense matter is not now the part of universe, because it has crossed the external limits of the universe.

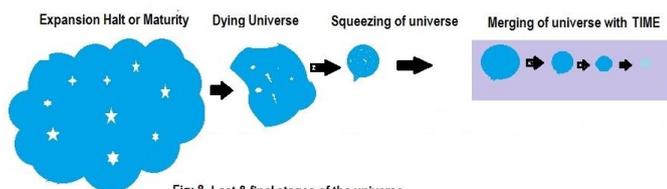


Fig: 8 Last & final stages of the universe

Figure 8

IV. EXPANSION HALT

Expansion halt is the final stage of the universe. Soon the energy of the stars cool down, the energy of expanding universe will be equal to the energy mounted by TIME membrane upon the universe. The temperature of the universe decreases with the result the expansion halt comes into being. Expansion halt will also affect the movement of space time. The space time gets slower. The earlier active stars and planets are now the debris, which move freely not following any law

of physics. There would be high entropy in the universe. The cosmic energy will drop rapidly, because now the universe is in dying stage or contracting stage which is reverse of expansion. This will be the beginning of cold age of the universe. In this stage all the stars and galaxies will not have any energy left. The universe will be the place of debris all around. The space will be freezing. The freezing of universe causes automatic vacuum of contraction. The Contraction of universe will be also caused by the backward force of TIME upon the universe. The backward force of TIME further contract the universe the debris of stars and planets will come closer to each other. There will not be reverse of arrow of time in the universe. This would be contraction of universe, or rolling back or squeezing of the universe. The contraction of the universe will be much faster than its earlier speed of expansion, because the whole universe makes a vacuum which will pull the TIME membrane to envelop the universe around. Ultimately all debris will be joined together enveloped by the TIME. The squeezing of TIME upon the debris of dying universe merge it completely with the TIME and there will be nothing left which we call a universe or a matter. It will be TIME singularity.

REFERENCES

- [1] 1982: Bunting and Mazur independently derive a generalized uniqueness theorem: any isolated, time-independent black hole in general relativity is described by the Kerr metric. Hence the equilibrium state of every (uncharged) black hole is fully described by only two parameters: mass and angular momentum (represented by M and J).
- [2] 1995: Strominger, Vafa, Maldacena and others discover how to describe the black hole microstates in terms of D - branes in string theory. The description is particularly detailed at or near the extreme limit, and usually the black hole is considered in more than 4 dimensional space-time.
- [3] Structure and the evaluation of the universe roadmap by NASA 2003
- [4] 1960: Penrose introduces global methods in the study of General Relativity.
- [5] 1963: Roy Kerr finds a generalization of the Schwarzschild metric and interprets it as the field of a "spinning particle".
- [6] Multiple planetary systems: Properties of the current sample Mellisa J Habson
- [7] Planetary system by Rick kang