

- **ENTRANCE**

Time is the most difficult phenomenon in the world to be defined. Scientists and Philosophers who so ever born have made their contribution to the resource stock of Knowledge through their tremendous struggle to fit time in its due place in the Universe.

However nothing of 'Time' could ever be concluded because the distant Reality is far beyond the capacity of experimentation of Science.

- **WHAT IS TIME?-**

1. Background Art:

Philosophy and Time

Commonly in the Religious Philosophies, 'Time' has been addressed as a precious package offered, which is being elapsed since the Creation.

Hinduism brings a different cyclic dynamics of repeated rings pattern with rebirth within the distinct domain from the Creation to Destruction.

Buddhism too brings a pattern of some evolutionary cyclic dynamics but with no particular definition for either 'Origin or End' of the Universe and instead, it nominates the Creator as 'Nature' itself upon causation.

In some Cosmologic Philosophies, Origin of the Universe is theorized by the famous 'Big bang' with the help of Astronomic observations too in the analysis. It also analyzes the approximate age of the Universe but the End remains yet in uncertainty.

Newtonian Time

Absolute 'Time' in the Universe, which could only be defined mathematically, is being elapsed in existence. Man perceives only a relative piece of the absolute Time at present.

Absolute Dynamic States in the Universe were also defined by him such as; 'Matter should exist at either 'Absolute Rest' or 'Uniform Motion' until the dynamic states are changed by any external force'.

Einstein and Time

Dynamics in the 4D Spatial Frame (Time was also added to the known 3D spatial frame as the 4th dimension) is a Whole Package, cannot be separated such as Past, Present or Future because the things happening and becoming are not completely suspended.

Also he has emphasized that Time is not absolute but Relative in elapsing at different states of dynamics. In support of his definition, he has produced his thought experiment of 'Twin Paradox'. It also exhibits his vision that Time could be won by Man someday by reaching at the speed of light.

2. One step forward

Before getting in to our exploration for Time, we have to clarify what are the analytical tools to be used and what is the best path to be followed.

Why not the academic path?

Academic order for a research accommodates almost no room for the researcher's own creativity. A referred technical paper of the modern day looks just a record of history limited to the particular subject area.

Any new addition from the researcher's part is moreover cut off, being unable to provide adequate references from previous publications with data of authors, editions, amendments, dates, presses etc. But how could a student give references for his own creative ideas and findings?

However ultimately nothing new comes hardly out for the world through the academic path of research and the ever accumulated stock of unfiltered knowledge base is conserved for future reference.

Cut a new path for Exploration

An independent explorer ought not to be a follower of any concrete orders or laws and therefore you have to cut a new path for your exploration. No particular order for your reporting is expected and you are at the liberty to start your story perhaps from the end.

Academy always expects from you to follow all the centuries old analytical foot paths left by the late scholars. But I am so sure that you could certainly go mad by following all those vague foot prints of late Scientists, because perhaps they themselves were the deserted people in the thick jungle of Uncertainty.

Never to waste your time and energies by struggling to solve man made paradoxes because 'Reality of Nature' is so simple to comprehend by even a layman of the field when things are reduced in to observable parameters.

'Scientific Deduction' is the best path towards Reality and you would not be a good explorer unless all the famous acceptances and theorizations in the society are challenged.

3. Analytical tools for the Exploration

Scientific aspect of common experimentation is not possible at all for this particular exploration for 'Time', the extreme end Reality of the Universe.

Philosophic Overview

Philosophy is the essential tool to surmise the Direction of your exploration just like a compass for the traveler in a desert or in a thick jungle. Imagination is the skill of immense importance for a good explorer to create many different conceptual models for the test. But philosophy in a mind reduces the struggle by selecting the best model for the presentation.

Logical Thinking

Logical thinking is the ultimate resource remaining with Man whence laboratory facilities are not at affordability or whence measuring tools of science fail to reach at the distant Reality.

Mathematics is the quantitative representation of Logics but unnecessary complexity of application expels your followers away.

4. Testing of the Acceptance:

4.1 Newtonian Time:

Absolute 'Time' in the Universe, which could only be defined mathematically, is being elapsed in existence. Man perceives only a relative piece of the absolute Time at present.

States of the Absolute Dynamics in the Universe was also defined by himself such as; 'Matter should exist at either 'Absolute Rest' or keep 'Uniform Motion' unless the dynamic state is changed by any external force'.

But ever accumulating parameter like 'Time' cannot maintain a fixed absolute value. Therefore the great scientist might have addressed a quantified 'Package of Time' given for the dynamics at the Origin of the Universe. It also indicates that 'Newtonian Time' doesn't elapse with regard to the Matter at the Absolute Rest.

But in the practical Universe, we don't observe 'Matter' anywhere at either Absolute Rest or at Uniform Motion.

However it is a brilliant concept from the 17th century and it complies with the basis of 'Linear Dynamics' where Origin and End ought to be designated. Origin should be either Creation or Big bang and the End is also definite because 'Time' in the given package was quantified.

4.2 Einstein and Time

Dynamics in the 4D Spatial Frame (Time too is added with the 3D spatial frame as the 4th dimension) is a Whole Package, cannot be separated such as Past, Present or Future because the things happening and becoming are not completely suspended.

Also he has emphasized that Time is not absolute but Relative in elapsing at different states of dynamics. In support of his definition, he has produced his thought experiment of 'Twin Paradox'. It also exhibits his vision that Time could be won by Man someday by reaching at the speed of light.

'Time' dominant package of Newton has been replaced by the 'Dynamics' dominant package of Einstein from the 20th century. According to his theorization, 'Time' alone could not be divided in to 'Past' or 'Future' and the 'Presence' is relative to the dynamic state of the observer.

This brilliant concept provides us scope for time travelling in to the Past and Future as well because the 'Presence' is a relative illusion whereas the total package is being happened there.

But it is his own theory 'Conservation of Energy' defines that 'Energy' could not be Created or Destroyed at all. Therein a 'Dynamic Package' means a finite quantity of 'Energy' and it cannot be vanished after the package is done.

It indicates that the Universe is eternal and Matter is Oscillating between the two states of 'Absolute Rest' and 'Ultimate Dynamics' by exchange of Energy. As a whole, this indicates a reversible dynamics of pendulum type.

We have to understand the two distinct states of 'Matter' such as;

1. 'Absolute Rest' - as Sir Isaac Newton has defined
2. 'Ultimate Dynamics' - as Albert Einstein has defined whereas 'Matter' gain the speed of light.

(However my personal opinion upon his thought experiment 'Twin Paradox' is different because, Man shall never reach to the speed of light. Man and all of his apparatus are made up of 'Atomic Matter' which undergoes for the 'Fundamental Cosmic Phase Transformation' at the speed of light. At that speed 'Energy Matter' [light, photons etc.] and Dark Matter only could exist without changing of the body structure. –refer to the experimental monograph 'Space Dynamics-V1'/2009 for deduction upon body structures of the fundamental Space Matter)

- **WHAT IS TIME?-(NEW DEVELOPMENT)**

The new extend of the subject matter 'Time' is furnished herein to be tested and challenged.

1. What is Time? (2015)

The Definition:

"Time is the Space between any two Changes and it doesn't elapse where, things don't Change."

Values so far loaded upon 'Time' are withdrawn by the new concept and instead 'Change', of 'Matter' is dominated. Time is but just a conceptual measure of which units are agreed in convention.

(A thought dialogue between the reader and author would perhaps bring a better understanding)

Q: Can you even think of a 'Change' without Time?

A: You can make a change slowly or quickly. But if the ultimate impact expected is the 'change' then what is prominent?

Q: But time is money and your economic dynamics will drop unless you do it quicker than your competitors.

A: You teach that marvelous theory to a natural stream or a water fall and then it will run faster, keeping your environment dry until the next rainy season. Then what is the 'Quality' of your quicker change?

Q: Sir Isaac Newton respected 'Time' by defining the Universe as a package of 'Absolute Time'.

A: Yes but absolute things are just hypothesis and not to be observed in the practical universe and can you show me there something at either 'Absolute Rest' or 'Uniform Motion' in the Universe?

Q: Albert Einstein has placed 'Time' at a more high position by defining it as the 4th Dimension of the Universe.

A: Yes I accept the 4D model of the universe but 'Time' is not the 4th Dimension.

Q: Then what is your 4th Dimension?

A: That is also a 'Distance' just like the other three distances such as X,Y and Z axes of the known 3D special frame. I wonder how it could be overlooked by people till the 21st century.

'Vv' is the axis of the 4th Dimension. It is directed from the positive infinity towards the absolute zero (void). It is named as 'Void Axis' and it is equally inclined to the axes X,Y & Z of the known 3D-frame by an angle of 54° 44° 8.2° towards the absolute zero (void).

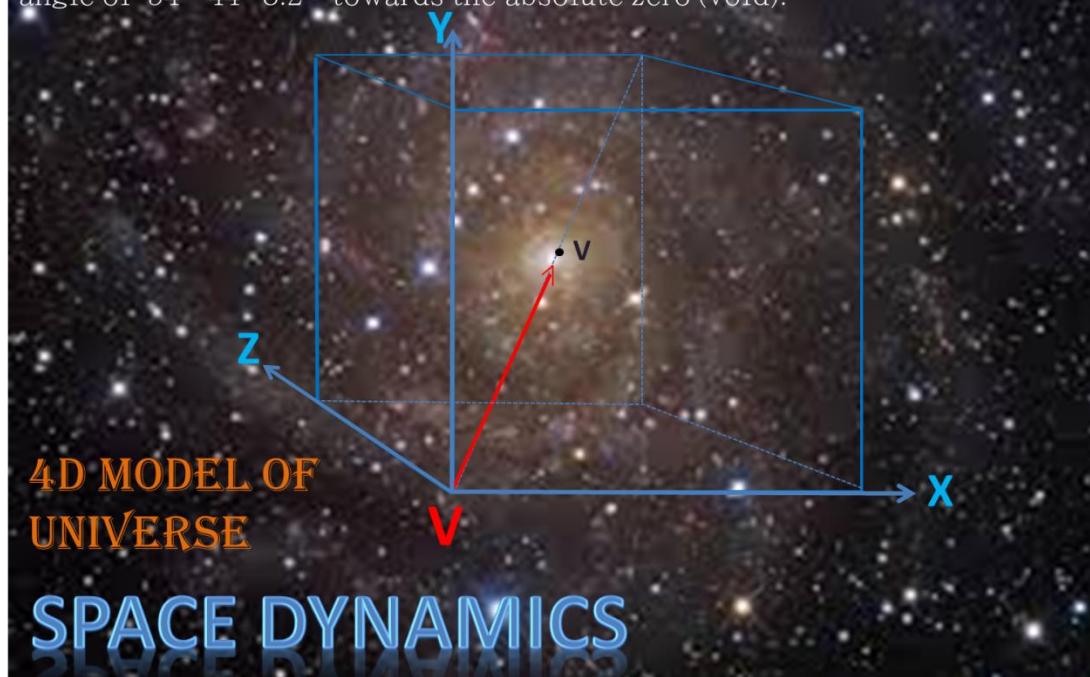


FIGURE-01

Q: Then your 4th dimension is always directed towards the center of a galaxy?

A: Not at all, direction is relative to your choice of the starting point and stretches towards the 'Void'.

Q: I have got a small glass ball in my hand now. Radius of that ball is one centimeter. Is that the distance to the 'Void' along your 4th dimension?

A: That is very linear thinking which Man is so accustomed to. Well, what was the midpoint of the ball that you have considered in measuring the radius as 1cm?

Q: Let's say the middle most molecule of a glass crystal at the very center of the ball?

A: Exactly, but why not the middle most atom?

Even if you go towards the atom at the center, you have to go further a distance of 10^{-13} cm, towards the nucleus of it. But as yet it is not the destination.

If you could travel at the maximum known speed, it would be a journey of years perhaps towards the absolute center of the glass ball in your hand.

Q: But speed of light is $c= 2.998 \times 10^{10}$ cm/s if you can recollect figures.

A: Come out of the cell of your linear thinking.

This is an exercise of scaling. Tell me what is the general scale of an animal?

Q: Animal? ..Let's average it as... one meter?

A: Reasonably enough. and then it is 10^2 cm in size as you agreed. Nucleus of an atom is of the scale of 10^{-13} cm. Then the total scale gap = $10^2/10^{-13} = 10^{15}$.

This is equal to a scaling distance of 1×10^{15} cm. Divide it by speed of light and you would get the time taken for your journey towards the center of the glass ball in your hand. It is nearly 27 hours and as yet the absolute void is far away from you.

Q: My God.. Ah! Your 4th dimension has made me mad and I started to see voids everywhere.

A: Come, come Sir, let the 'Reality' be shut there in the 'Void' itself and we have to live in this beautiful world.

The distance along the 4th dimension is also linear and measurable up to a certain extent. But beyond that you shall have undergone several Scale Drops of the size 10 to the power 15 in volumetric magnitude.

Q: Then how many scale drops are there to travel across the entire thing of observable Universe?

A: As you observe, there are seven major colors in a rainbow or normal light spectrum based on wave length and frequency. Also you hear seven different notes in music upon basic scale intervals. So you would notice that '7' is a number belongs to the 'Nature' and for our surprise, there are seven physical worlds to be observed in the Universe at each volumetric scale drop of 10^{15} as shown in the figure-02.

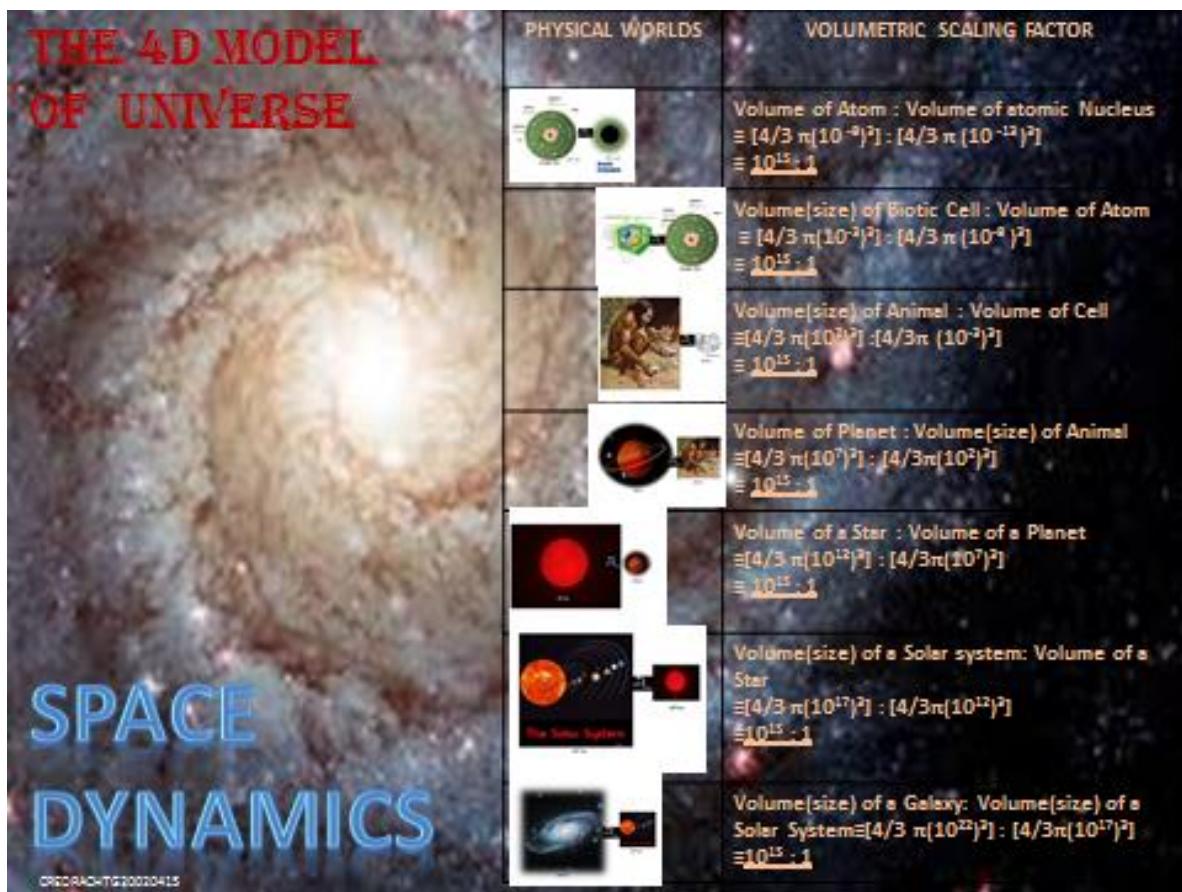


FIGURE-02

The Law of '4D Scaling of Worlds':
Seven Physical Worlds are Observed in the Universe, at each Volumetric Drop of 10^{15} along the 4th Dimension.

- 01- Volume of Atom : Volume of atomic Nucleus $\equiv [4/3 \pi (10^{-8})^3] : [4/3 \pi (10^{-13})^3]$ $\equiv 10^{15} : 1$
- 02- Volume(size) of Biotic Cell : Volume of Atom $\equiv [4/3 \pi (10^{-3})^3] : [4/3 \pi (10^{-8})^3]$ $\equiv 10^{15} : 1$
- 03- Volume(size) of Animal : Volume of animal Cell $\equiv [4/3 \pi (10^2)^3] : [4/3 \pi (10^{-3})^3]$ $\equiv 10^{15} : 1$
- 04- Volume of Planet : Volume(size) of Animal $\equiv [4/3 \pi (10^7)^3] : [4/3 \pi (10^2)^3]$ $\equiv 10^{15} : 1$
- 05- Volume of a Star : Volume of a Planet $\equiv [4/3 \pi (10^{12})^3] : [4/3 \pi (10^7)^3]$ $\equiv 10^{15} : 1$
- 06- Volume(size) of a Solar system: Volume of a Star $\equiv [4/3 \pi (10^{17})^3] : [4/3 \pi (10^{12})^3]$ $\equiv 10^{15} : 1$
- 07- Volume(size) of a Galaxy: Volume(size) of a Solar System $\equiv [4/3 \pi (10^{22})^3] : [4/3 \pi (10^{17})^3]$ $\equiv 10^{15} : 1$

(Refer to '4D Model of the Universe' pdf/2015 or 'The 4th Dimension' pdf/2013)

Q: Your 4D model is somehow explained vaguely enough. But when could that happened creating of the Universe with seven physical worlds?

A: Even today at this very instant, millions of new solar systems are being born in the Universe.

Q: No provision in your model for time travelling to the Past or Future?

A: Up to a certain extent.

Q: It sounds you admit existence of ‘Time’ and directions of it towards the Past and Future?

A: Time is not a substance at all. Neither it possesses nor directions. It is only a measure of Dynamics (change) of Matter of which the units are agreed through convention. It is not defined at all at the ‘Absolute Rest’ of Sir. Isaac Newton.

Also, ‘Time’ could have had no room if entire dynamics of the Universe happened at once for an End, at the same instant of the Origin.

I agree with Albert Einstein’s definition, “Time alone could not be extracted out from the Dynamics as Past, Present or Future”.

Q: Then how would you go in to Past or Future without handling of ‘Time’?

A: I don’t observe any possibility for human beings or any supreme spirits could travel in to the Past, because it is a closed chapter that nobody could rewind to happen again.

Q: You mean the Past doesn’t exist anymore to be visited?

A: Exactly.

Q: Then what is the ‘Great Wall in China’ isn’t that the existence of a Past?

A: That is only the ‘Present’ shape of a ‘Past’. You can’t visit to that past.

Q: Then how about the future? Can you visit there?

A: Not at all. Future could not have happened as yet but it might have been arranged.

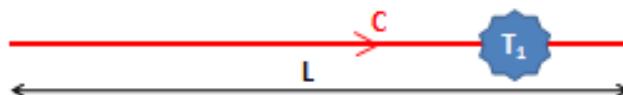
Q: Then your logic is out. How could one travel up to a certain extent in to the past or future when both directions are closed for Man?

A: You cannot go there but you can read it. Time elapses differently in different dynamics and picture frames of your role in the yesterday's play is still being moved in the space along the 4th dimension.

Q: What? Speed of light is a fixed thing as agreed by all of world. Then one second is defined as 'the time needed for light to travel a distance of 2.998×10^{10} cm in the free space. Time is being elapsed all the same along the axes X, Y or Z in the 3D frame with no difference as you see. Then how could it be elapsed differently in your 4th dimension?

A: That is again very linear thinking of you. All the happenings (dynamics) in these worlds are not happened along a straight line as you think. It is true that projected particles such as, light, photons, or gamma etc could move almost at the aforesaid speed because that is 1D linear dynamics. But can you spread a liquid (say water) upon a glass plane at the speed of light?

1. TIME IN LINEAR (1D) SPACE:



$T_1 = \text{ultimate travel distance} / \text{velocity of light (C)}$

$$T_4 = L/C \dots \quad (1)$$

In linear motion in the free space, $L = 2.998 \times 10^{10}$ cm

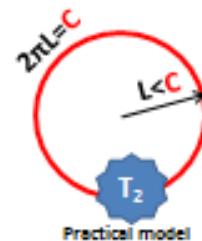
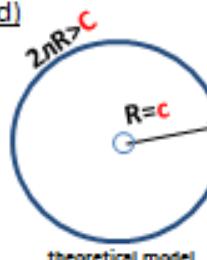
T₁ = 1 (Second)

2. TIME IN AREAL (2D) SPACE:

SPACE

DYNAMICS

Critical speed in areal dynamics = $C/4\pi^2$



T₂= Theoretical Extension /Practical Rate of extension

$$= \pi(C)^2 / \pi(L)^2$$

$$= \pi(C)^2 / \pi(C/2\pi)^2$$

$$T_2 = 4\pi^2 \text{ (seconds)}$$

$$T_2 = 39.48 T_1$$

Matter cannot be extended on a plane radially at speed of light because peripheral growth rate cannot exceed velocity of light. Therefore one second of 2D areal extension is equal to 39.48 seconds of 1D linear dynamics.

FIGURE-03

2D dynamics are slower than 1D dynamics in happening. Speed of light $c = 2.998 \times 10^{10}$ cm/s is the critical speed in linear motion. But in the areal dynamics it is much slower than that as described in the figure-03.

Q: But the critical speed 'c' cannot be changed in any dynamics.

A: Yes indeed, But how do you take it that growth of the circumference in areal extending? In short, tell me circumference is linear or not?

Q: Well, It is a linear measurement.

A: Then the growth of circumference cannot exceed the speed of light. But meanwhile, the radial extending of area has been slower as you see and one second in the 2D world becomes 39.48 seconds of your 1D world.

Q: the 1D world is not mine.

A: Well, but most of us are still living in the 1D world in thinking. And let's see how Time behaves in other worlds 3D and 4D also.

3. TIME IN THE VOLUMETRIC (3D) SPACE:

SPACE DYNAMICS

Critical speed in volumetric dynamics
 $= C/8\pi^3$

T₃ =Theoretical expansion /Practical rate of volumetric filling
 $= (4/3)\pi C^3 / (4/3)\pi L^3$
 $2\pi L = C$ (any circumference cannot grow faster than C)
 $T_3 = C^3 / (C/2\pi)^3$
 $T_3 = 8\pi^3 = 248$ (Seconds)

T₃ = 248 T₁



4. TIME IN THE SCALING (4D) SPACE:

Critical speed in Scaling dynamics
 $= C/16\pi^4$

T₄ = Theoretical scaling / Practical rate of scaling
 $= (4/3)\pi C^3 \times C / (4/3)\pi L^3 \times L$
 $2\pi L = C$ (atomic matter cannot move in any dimension faster than C)
 $T_4 = C^4 / (C/2\pi)^4$
 $T_4 = 16\pi^4 = 1558.5$ Seconds

T₄ = 1558.5 T₁

Atomic Matter cannot exceed the speed of light in motion and Time has been defined only for the linear dynamics as yet up to the 21st century. But time elapses differently in other dimensional dynamics.

CRICAL-DTG20012512

FIGURE-04

As it is deduced in the figure-04;

$$\begin{aligned} \text{Speed of light along the 4th Dimension} &= 2.998 \times 10^{10} \text{ cm /1558.5 s} \\ &= 19,236,445.3 \text{ cm/s} \\ &= \underline{192.36 \text{ km/s}} \end{aligned}$$

Q: Well it is a fine narrative with figures which made me mad again. But you did not explain how one could visit to the Past?

A: I have emphasized that it is not a visit at all because there is nothing of the 'Past Dynamics' remaining at present to observe. But picture frames of your role in the yesterday's play, is still being moved in the space along the 4th dimension if you could catch them to watch as a film.

Q: A snap shot of present means the light rays emitted (reflected) from any object describing the feature of the body by colors.

A: Excellent reasoning out from you and then?

Q: Once the object is removed no more of the picture remains there and what is your illusion of a moving picture frames along the 4th dimension? Nothing is there to move.

A: Well, What is light?

Q: Why.., it is a ray, isn't it?

A: Yes it is a ray and a ray is a line projection of particles as Sir Isaac Newton also declared. It is not a medium wave like sound. Sound exists till it is gradually faded away as the echo, even after removing of the sound source. Velocity of light is speedy as $c= 2.998 \times 10^{10}$ cm/s (0.3 million km) and final picture could not delay even an instant after removing of the object. But tell me what is there to observe in the picture of humming birds?

The bird is flying not more than couple of meters from your camera and you know how speedy that light rays are. Then what is the fogged figure coming so late towards your camera?

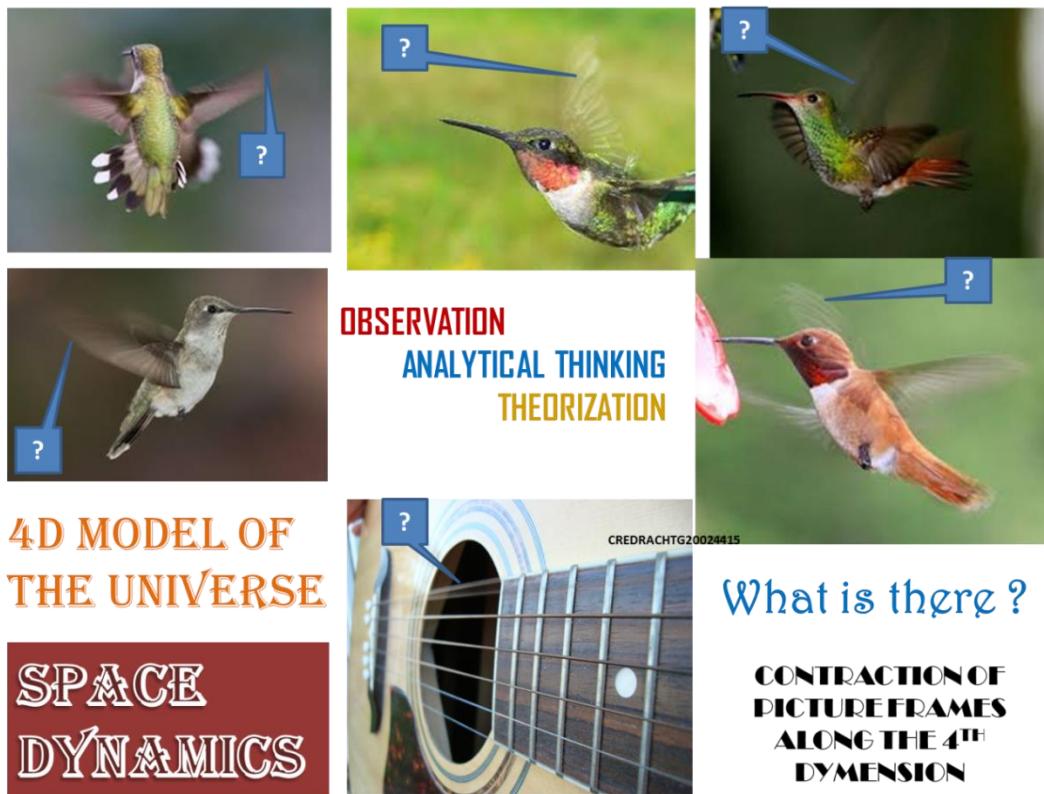


FIGURE-05

Q: My God, what is it? ..perhaps the illusion of feathers of the.....

A: Illusion? Illusion everywhere illusion and nothing is explained in worlds. No Sir, that is not the illusion but the light particles just emitted out from the feather which are still being gradually moved in the 4th Dimension. Camera eye could catch only the glimpse of the figure which is being contracted along the 4th dimension because the speed in that direction is slow.

Q: Well, On that way everything is recorded in the space along the 4th Dimension?

A: Yes if you would like to read it as a film. Perhaps Science will grasp the reality in future.

Q: Perhaps by the next century. Then you can't hide your character from the world and **God** shall read your role?

A: Of course, supreme minds should read our past but Science will take some time to reach at this reality. But Scientists must investigate how some human beings too could do such reading of the Past and Future.

Q: What? Who could do this?

A: **Buddha** who lived in India by 2600 years early, had developed his mental abilities immensely through vigorous meditation to read the Past and Future of people up to a far extend. Not only him but some of his followers also had practiced that as a proof of, human beings can obtain that ability.

As it recorded from the recent history **Edgar Cayce** of America had had that special ability of 'Remote Mental Operations' and he could reveal a far world history by reading of the Past. His future forecasting ability too is marvelous.

Poles shift in the globe and due disastrous situation oncoming was predicted by him and the forecast was made wonderfully before finding of the scientific phenomenon 'Geo Magnetic Reversal'.

Q: Well, but you didn't explain yet how people could visit to the future?

A: It is a modeling exercise in your mind by contracting and expanding along the 4th Dimension.

Q: I can't make head or tail out of that unless you explain will you?

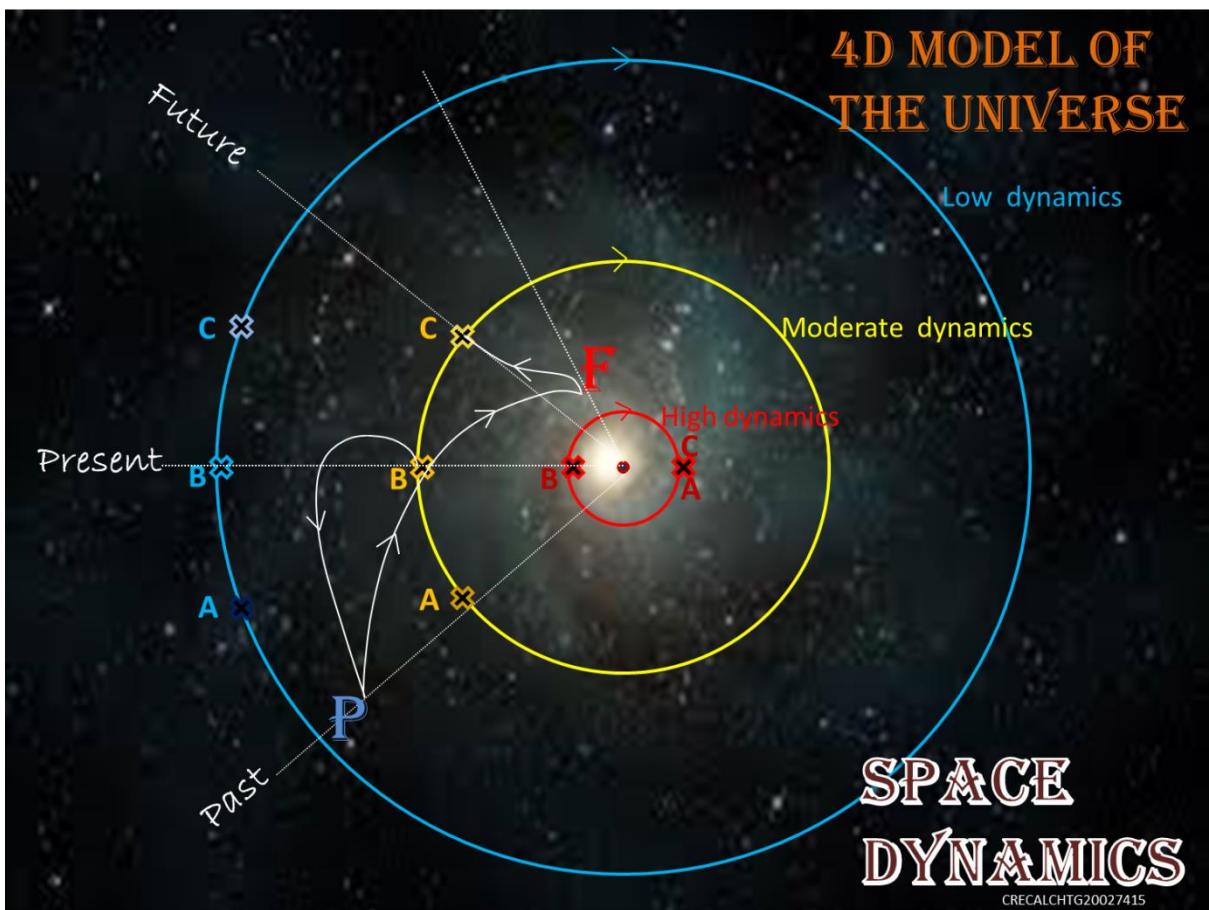


FIGURE-06

Both Scientists Newton and Einstein as well have declared that 'Time' elapses relatively in different dynamics. So therefore you can't fix this moment as the 'Present' to suit for the whole Universe. The figure exhibits three different packages of dynamics in three colors and Red is the fastest. Suppose you are living in the Yellow world of moderate dynamics.

Time is nothing but you have a certain 'Frequency of Change' that you are accustomed to in your scale of the world. Suppose you are at Yellow B at present and desirous of observing your own past and future as well.

Then you have to reduce the 'Frequency of Change' in your mind and at the same time it starts a journey (leaving your physical body) towards the low frequency worlds indicated in Blue color. At P, you would observe a certain period of your Past by reading the picture frames of your played role. Meanwhile your body stays alive there but motionless and probably that's why Edgar Cayce just wanted to sleep in a sofa during that exercise.

Now you have to speed up your mental frequency, to return back to your body which is been moving on the Yellow track meanwhile towards the future. In that exercise you have

to tune the mental frequency higher than your usual frequency or unless you cannot bypass your body.

By racing the frequency, your Mind enters in to the Future overtaking of your own dummy body. At 'F', your mind would observe your Pending Future by reading of 4D contracting picture frames of early cyclic dynamics.

Then you can return back to your body which is at yellow 'C' by tuning mental frequency to your accustomed yellow level.

This is as a whole, not a 'Time' dominant model but a 'Frequency of Change' dominant model of 'Evolutionary Cyclic Dynamics'.

Q: I don't think Science could ever test your conceptual model at least to reject it rather than accepting.

A: Of course for certain. Science even with all the most sophisticated apparatus is still far behind the degree of knowledge to test such things.

And I observe that Mankind is badly wasting the precious time package of the 'Final Era', due to their unnecessarily systematic and methodical way of procedures and shall find the tragic End before getting at the required level of knowledge even for survival.

- **GENERAL DISCUSSION**

Q: Well, Why do you treat 'speed of light' in your analytical monograph, as a critical factor or a fixed landmark in this Universe?

A: Observable worlds in the universe including biotic worlds too are made up of 'Atomic Matter'. Any material of atomic matter cannot exceed that critical speed because they undergo a structural phase transformation.

Q: What happens to the atom then?

A: It contracts in to Neutron mass or Dark Matter in other words.

Q: What are the physical conditions needed for this transformation?

A: Pressure around the atom should drop to zero.

Q: I don't understand how moving speed could drop pressure around atoms to zero?

A: My dear Sir, your book will be blown off once you open the shutters of your train cabin because outer pressure has dropped immensely due to speed and that is **Bernoulli's principle**.

Q: But what is the medium passing through?

A: That is the very singular point that I am in a big difficulty. So far developed Science in worlds doesn't accept or either care existence of the space medium. If scientists cared of that, they should have deduced its density. However I have deduced it through mathematically for my own satisfaction. (refer to 'Space Dynamics'-V1/2009 for derivation of the medium density= 4.773×10^{-4} g/cm³ and pressure = 2.145×10^{17} dynes/cm² in the Galaxy).

And I dare say Science would not progress even by an inch in this direction till scientists admit existence of the 'Medium Matter' and 'Skin Boundary' of particles.

Q: Anyway, suppose there is a medium. But how could an atom contract when outer pressure is dropped? It should have been expanded instead no?

A: Can you imagine a child shooting soap bubbles through a small tube. Just at the end of the tube bubbles look very small due to speed but they expand bigger when speed is dropped. (This phenomenon also explained under 'Theory of skin boundary of matter' in the same monograph 'Space Dynamics -V1/2009.)

Q: Can you give any visible example from the universe to prove your logic of contracting atomic matter in to dark matter?

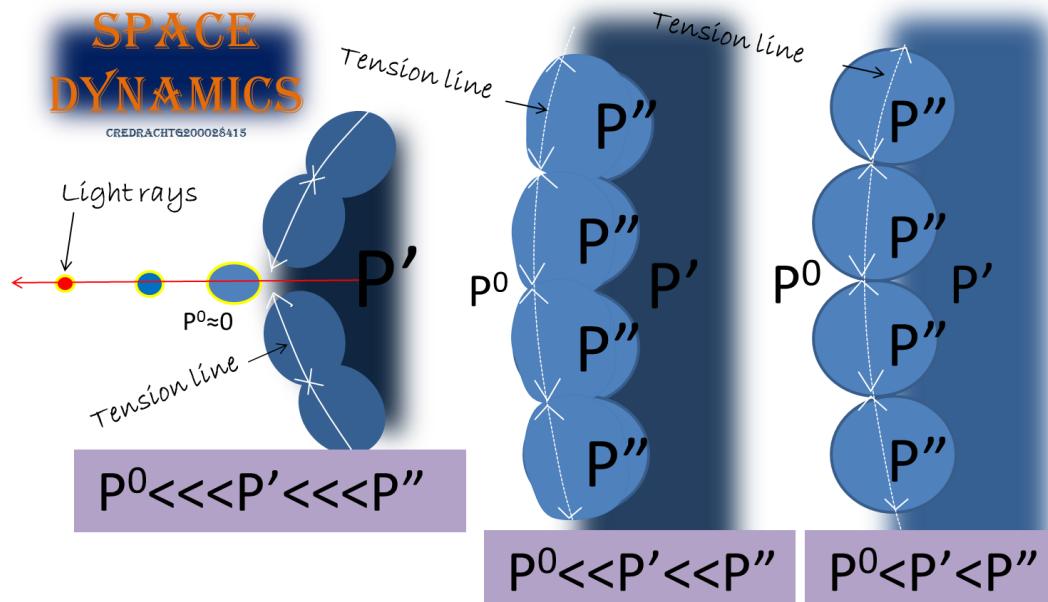
A: At the center of a contracting galaxy, a black ball like dark matter should be growing. The gigantic galactic centripetal spherical vortex of medium matter drags all the atomic masses in to the absolute vacuum at the center. Whereas the motion is grown to the speed of light, the atomic mass is gradually contracted in to neutron mass (dark matter).

In contrary a sphere of dark matter should be expanding in to hydrogen gas at the central zone of an expanding galaxy. But I don't think both cases are observable because that central zone of high dynamics is densely surrounded by moving matter and therefore dark matter could hardly be observed there.

But I have seen people misinterpret every dark places observed in a picture as dark mater but that is wrong. Gassy and dusty clouds could be looked as dark matter when light rays coming from behind. Perhaps a planet should look a black hole when light is coming from the surrounding.

Figure-07 explains how an atom is contracted in to dark matter by emitting energy rays out at the speed of light.

SKIN TENSIONING & ENERGY SHOOTING



Outside pressure of the atom is dropped due to motion through the space medium and the structure is contracted by the grown tension of the skin. Ultimately skin particles are shot out as light rays and the atomic body is contracted in to neutrons (Dark Matter).

FIGURE-07

Q: You dare say dark matter is nothing else but neutrons. do you?

A: Yes I dare say.

Q: Velocity of light is the maximum achievable speed in the Universe as you admitted by the term 'critical velocity'.

A: Maximum achievable speed by atomic matter.

Q: What? Any speed higher than that?

A: Yes. If you could project it somehow, neutrons can move much faster than light because its structure is so rigidly stable against high dynamics. It breaks its structure exploding in to Hydrogen only at the growing pressure conditions under low dynamics.

Q: As per your logic, a galaxy can travel across the space being contracted in to dark matter?

A: Yes only if it gets a directional speed by activation of a conical vortex at the final stage of the contracting.

Q: Can it emerge all at once in another place? Suppose from somewhere of our milky way?

A: Yes it might emerge by clashing upon another calm fully functioning distant galaxy in the Universe. But commonly a galaxy emerges from the same place where it disappeared because the spherical vortex fixes its direction along the 4th Dimension.

Q: Bye the way, you admit the twin paradox and different aging by travelling at the speed of light?

A: It is more difficult to solve man made paradoxes than solving of the unexplained in the Nature. But in this particular thought experiment of Einstein, I don't admit possibility for age deference because traveling speed is not the governing factor of aging in biotic worlds.

Q: Then the traveling exercise along the 4th dimension to read the past or future doesn't make you aged.

A: Physical body cannot travel along the 4th dimension at all. It is your astral body (mental figure) only can do this wisdom.

Q: What is Mind and what is it made up of?

A: My dear Sir, I am a man like others with very common human abilities.

Q: But you explore everything?

A: Well, it is still being explored. But as you asked I'll brief some vague clues such as;

- 1). Physical **body** is the computer (hardware).
- 2). Physical **brain** is a sensory operated package of many workable models (software) in different faculties.
- 3). **Mind** is a wave operated developing bank of potential energies.

Q: What do you think? Mind is a physical body or an astral body?

A: Everything in the Universe is physical and made up of physical matter, though Science is not equipped as yet to grasp. But to speak with your term 'Astral', Mind is associated with the astral body.

May I ask a simple question as 'What are the three fundamental space matter'?

Q: My dear Sir, why.. solids, liquids and gases.

A: Those are only the three phases of the same '**Atomic Matter**'. But there are other two forms of matter such as; **Energy Matter** and **Medium Matter**. Structures are different but

they too possess Mass and Volume as well. Such physical qualities can be deduced through laboratory experimentation and mathematics too if scientists pay attention.

- **CONCLUSION**

Nothing is there ultimately to be concluded as '**Time**' because it is just a conceptual measure to indicate the gap between **Changes** of Matter.

Therefore I would like to end up this 8th volume of the experimental monograph 'Space Dynamics' with this important message for the public of 21st century.

"Time and Tide waits for no Man"

by

Cyril H Thalpe Gamage