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Time's Bang Theory

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Abstract
Pre Big Bang phase remains a key to get perfect time's origin and to determine its creative role, so the aim of this study is to confide time's mechanism in the universes evolves processes.
Calculations based on Quran data – fourteen centuries ago – of universes evolves phases are the access to have a due theory:
Pre Big Bang evolves period = 91,736,492,148,000 m/s
Big Bang evolves period = 122,315,322,864,000 m/s.
Time occurs in two types; compact at pre Big Bang phase where it begins and multitude at Big Bang phase. Its six fold body structure and its motions mechanism evince universes evolve bifurcation conjunct with time's develop before and after Bing Bang.
Time's expansion process in the consequent of clockwise and anti-clock wise of its two body circles motions found to be dominant in whole universes evolve motions. This time's mechanism which begins in pre Big Bang phase is the essential inducement of Big Bang processes.
Universe Light-Darkness mechanism's percentage and ratios; which formulate here in a law emphasize time's building role in addition to its indicating function. The gravity presents here as time's duty, gives a full idea of universes dynamic pillars, and it is managing universes inner and outer equilibrium; subjectively and aggregatively.
Modeling of a single time's motion which communized in whole universes actions gives a new evolves theory; it is Time's Bang Theory.
Keywords: Time's begins, phase's durations, time's body structure, time's mechanism, expansion, and evolves specification, universe L-D mechanism, and time's gravity.

1. Introduction:

Time is the indefinite continued progress of existence and events that occur in apparently irreversible succession from the past through the present to the future.(Oxford Dictionaries) (Webster's New World College Dictionary, 2010) (The American Heritage Dictionary of the English Language 4th .Ed2011). Time is a component quantity of various measurements used to sequent events, to compare the duration of events or the intervals between them, and to quantify rates of change of quantities in material reality or in the conscious experience.(Merriam-Webster Dictionary) (Le Poidevin, Robin , 2004). These are common concepts, while the scientific identification states that time is fourth dimension, along with the three spatial dimensions (Paul Davies, Simon & Schuster, 1996).

Time has long been a major subject of study in religion, philosophy, and science, but defining it in a manner applicable to all fields without circularity has consistently eluded scholars (Sean M Carroll, 2009)(Adam Frank, 2012) (Simon & Brown, 2012)

Two contrasting viewpoints on time divide many prominent philosophers. One view is that time is part of the fundamental structure of the universe (Zeigler, Kenneth 2008). Dimension independent of events, in which events occur in sequence (Official Baseball Rules, 2011). Sir Isaac Newton subscribed to this realist view, and hence it is sometimes referred to as Newtonian time (Rynasiewicz, Robert, 2004). The opposing view is that time does not refer to any kind of container that events and objects move through, nor to any entity that "flows", but that it is instead part of a fundamental intellectual structure-together with space and number- within which humans sequence and compare events. This second view, in the tradition of Gottfried Leibniz (Burnham, Douglas, 2006 and Immanuel Kant Mattey, G. J.: UC Davis , 1997) (McCormick, Matt, 2006) holds that time is neither an event nor a thing, and thus is not itself measurable nor can it be travelled.

Ancient cultures such as Incan, Mayan, Hobby, and other Native American Tribes - plus the Babylonians Ancient Greek, Hinduism Judaism Jainism and others - have a concept of a wheel of time: they regard time as cycle and quantic consisting of repeating ages that happen to every being of the Universe between birth and extinction (Wikipedia.org Time).

In general, the Islamic and Judo-Christian world-view regards time as linear (Rust, Eric Charles, 1981) and directional (Betz, Hans Dieter, ed., 2008) beginning with the act of creation by God. The traditional Christian view sees time ending, teleological (Lundin, Roger; et al 1999) with the eschatological end of the present order of things, the end-time.

Until Einstein's reinterpretation of the physical concepts associated with time and space, time was considered to be the same everywhere in the universe, with all observers measuring the same time interval for

any event (Herman M. Schwartz, 1968) Non-relativistic classical mechanics is based on this Newtonian idea of time.

Einstein, in his special theory (A. Einstein.et al, 1905) realistic postulated the constancy and finiteness of the speed of light for all observers. He showed that this postulate, together with a reasonable definition for what it means for two events to be simultaneous, requires that distances appear compressed and time intervals appear lengthened for events associated with objects in motion relative to an inertial observer.

The theory of special relativity finds a convenient formulation in Murkowski space-time (Corry, L.1997) a mathematical structure that combines three dimensions of space with a single dimension of time. In this formalism, distances in space can be measured by how long light takes to travel that distance, e.g., a light-year is a measure of distance, and a meter is now defined in terms of how far light travels in a certain amount of time. Two events in Murkowski space-time are separated by an invariant interval which can be space-like, light-like or time-like. Events that have a time-like separation cannot be simultaneous in any frame of reference there must be a temporal component -and possibly a spatial one- to their separation. Events that have a space-like separation will be simultaneous in some frame of reference, and there is no frame of reference in which they do not have a spatial separation. Different observers may calculate different distances and different time intervals between two events, but the invariant interval between the events is independent of the observer, and his velocity.

Indeed a question of time's beginning was not an interest of philosophers, religious, and scientists before Prof. Stephen Hawking.

Stephen Hawking in particular has addressed a connection between time and the Big Bang. He says that even if time did not begin with the Big Bang and there were another time frame before the Big Bang, no information from events then would be accessible to us, and nothing that happened then would have any effect upon the present time-frame(Hawking, Stephen, 1996) (Hawking Stephen, 2012) .

Hawking has stated that time actually began with the Big Bang, and that questions about what happened before the Big Bang are meaningless (Hawking, Stephen, 2006) (Ghandchi Sam, 2004) (Retrieved ,2011) .

This less-nuanced, but commonly repeated formulation has received criticisms from philosophers such as Adler Mortimer Who wrote: "Hawking could have avoided the error of supposing that time had a beginning with the Big Bang if he had distinguished time as it is measured by physicists from time that is not measurable by physicists.... an error shared by many other great physicists in the twentieth century, the error of saying that what cannot be measured by physicists does not exist in reality (Encyclopedia Britannica 1992) He criticized physicists saying:

"Where Einstein had said that what is not measurable by physicists is of no interest to them, Hawking flatly asserts that what is not measurable by physicists does not exist—has no reality whatsoever. With respect to time, that amounts to the denial of psychological time which is not measurable by physicists, and also to everlasting time—time before the Big Bang—which physics cannot measure. Hawking does not know that both Aquinas and Kant had shown that we cannot rationally establish that time is either finite or infinite (Adler Mortimer, 2011).

Unfortunately these philosophic and religious criticisms didn't have alternatives, or any disclaims support. So this study is not of a critical type, but it is a supplementary with scientific evidence.

Pre Big Bang phase in these hypotheses is one of two evolve phases in one universes space-time place. It means that Big Bang is not a separate an explosion phase, it is continues ruptured action within the basic pre Big Bang phase.

Analyses of pre Big Bang phase are accesses to confide the great unsolved time's mysteries:

1) Time's beginning
2) Types of time.
3) Time's body structure.
4) Time's motion's mechanism.
5) Universes Light-Darkness mechanism.
6) Time's role, functions, and duty in the space-time evolving processes.

The necessity of pre Big Bang phase is expository of the following universe's mystification events:

a) Big Bang mechanism's beginning.
b) Universe's expansion mechanism.
c) Pre Big Bang and the Big Bang phases and sub phases periods.
d) Universe's Light-Darkness law.
e) Universe's establishment and completion processes.
f) Corrigendum of Big Bang Nucleosynthesis.
g) Time's Bang Theory derivation.
h) Time's gravity theory, which solved a four nature's forces and the function of Dark Matter Energy.

Big gap between the certain universes' origination and time's beginning after the Big Bang; it is from

one hand mark-off between the space and time which in fact connected. From other hand one may find difficulties to get the perfect universe's age estimations, so this gab should fulfillment to avoid scientific shortage.

Pre Big Bang mystification attributed to the estimation disability of phase's evolved period and to the unknown processes went there. So perfecting of these deficiencies is a necessary risk and vigorous task.

Universes evolve phase's periods and their sub phases before and after the Bing Bang were mentioned - more than fourteen centuries - in Quran which have been translated to English (Usif Ali, 1934).

Quran mentioned two universes evolve 'phases; the first pre Big Bang phase's period is 91,736,492,148,000m/s, and the second Big Bang phase's period is 122,315,322,864,000 m/s. Pre Big Bang have six sub phases and the Big Bang have eight sub phases. Convergence between universe's sub phases indicates that the first phase is base-n in the Big Bang phase.

These periods estimation's results stimulate to go further; searching an access to relevant the mystery of time in pre Big Bang phase.

The task of this essay from one side is to throw light on time's beginning, body structure and its mechanism's motions, role, functions and duty. From other side is to fill the great gap between the initial universe's phase and the following more develop phase to evaluate the perfect universe's evolve, and get its exact age. All these results establish a new theory; it is Time's Bang theory.

Time's Bang theory evinces here pre Big Bang's time's expansion role in the Great Big Bang.

Making use of universe Light-Darkness mechanism which formulated here in a law we have come to decidedness results that time has a building role in addition to its indicating; lightning and darkening functions.

Light-Darkness time's ratios evince this role and function in both universes phases before and after Big Bang.

The great long of pre Big Bang phase period, and the time's body structure, its expansion mechanism, building's role and indicating function has been deducted these discussions contraindicates Big Bang nucleosynthesis theory; it specify as a pre Big Bang basic processes.

Evidence of time's gravity duty gives a new theory of the universes gigantic energies currents, and its role to avoid verisimilar collapse and prevent from expectable evanescence. It is a universe's gravity stability and expansion constancy relationship issue.

2. Methods

Calculations of universes evolve phases based on Quran data which stated fourteen centuries ago.
To determine phases' durations, and sub phases periods the following equations used in estimations:

1) Minimum universes day's measurement = 1000 lunar year (Sura Sajda. Verse 5-Quran)
2) Maximum universes day's measurement = 50,000 lunar year (Sura Maarej. Verse.4-Quran)
3) General universes day's measurement = 51,000 lunar year (Quran enumeration)

Where these lunar years converted to light speed estimations using the following equation:

4) 1000 lunar year =299,792,458 m/s (Mohammed Dudah, 1988)

Time's body structure devises from time's compact state of the pre Big Bang phase, and its sub phases.
Light- darkness law ratiocinates to understand time's building role in addition to its indicating; lightning and darkening function in pre Big Bang and Big Bang phases.

3. Discussions & Results

To get perfect results of time's beginning; identification of time's types is the first assignment. Then time's body structure, its motion's mechanism, role, function, and its gravity duty are an essential of universes evolve actions. Analysis starts with universes evolve phases and sub phase's calculations which establish a universe's time's law for further explanations.

3.1 Universes evolve phases and Sub phases' periods

The heavens and the earth in space-time conjunction were mended together. They were in primitive condition, and later on developed (Sura Anbia. Verse 30-Quran) Space-time evolve phases are two; primal phase (Sura Assajda Verse.4-Quran) within six sub phases, and more develop phase (Sura Ha Mim Verses 10, 11, 12-Quran) within eight sub phases. The following calculations give detail duration of due phases and sub phases:

3.2 Calculations

Looking for precise results; Quran periods of universes evolve phases converted to light speed measurements as estimated below:
A) Datum:

1) 1000 lunar year= 299,792,458 m/s
2) 51000 is a general universes day as record in the method.

3) Universes Basic time = 51000 x299792458 = 15, 289, 415, 358, ooo m/s
4) Pre Big Bang phase has 6 sub phases, and Big Bang phase has 8 sub phases.
5) Sub phases sum = 14

b) Results:

Results of universes evolve periods calculations recorded in the table No.1 and in table No.2 equations of universes time's law:

Table.No.1: Universes evolves periods

Universes evolves periods	Sub phases	Equations	Periods
Basic universes time		51.000x299.792.458 =	15, 289, 415, 358, ooo m/s
Evolves period of Pre Big Bang phase	6	15, 289, 415, 358,ooox 6 =	91,736,492,148,000 m/s
Evolves period of Big Bang phase	8	15, 289, 415, 358,ooox 8 =	122,315,322,864,000 m/s
Universes total evolves period			214,051,815,012,000 m/s
Big Bang beginning' time			91736791940458 m/s

Table No.2 Universes time's law equations

Law's name	Formula	Equation	Result
Universes Constant's Time	Total Evolves Time / Sub phases Numbers	214,051,815,012,000 m/s / 14	15,289,415,358,000 m/s
Single Sub phase's Time	Total Evolves Time / Sub phases numbers	214,051,815,012,000 m/s / 14	15,289,415,358,000 m/s
Total Evolves Time	Universes Constant's Time x Sub phase's Numbers	15,289,415,358,000 m/s x 14	214,051,815,012,000 m/s
Sub phase Numbers	Total Evolves Time l / Single Sub phase's Time	214,051,815,012,000 m/s /15,289,415,358,000 m/s	14
Phase's time	sub phase's numbers x Universes Constant's Time	14 x 15,289,415,358,000 m/s	214,051,815,012,000 m/s

Comparison between pre Big Bang and Big Bang time's phases shows in figure No.1; where the differential between them only one quarter.

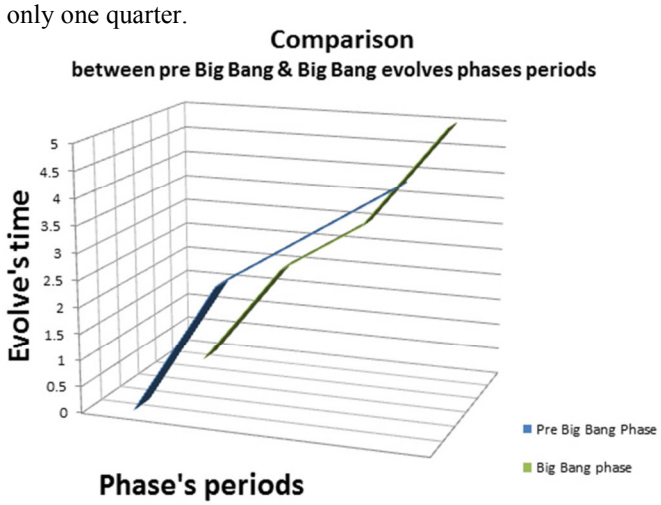


Fig.No.1: Comparison between Pre Big Bang & Big Bang evolves phases

Since universes space and time are connected; so evolve periods' differences give a new idea of time's beginning, its body structure, and its type's diversity.

3.3 Types of Time:

Differences in the universes evolve phases subdivides time's types to a basic compacted type (Sura, Araf. Verse 54) and multitude (ruptured) type. Both types coincided with space-time blend pre Big Bang phase, and Big Bang phaseFig.No.2-a. Each universe evolve phase has its own sub phases as shown in Figure No.2-b:

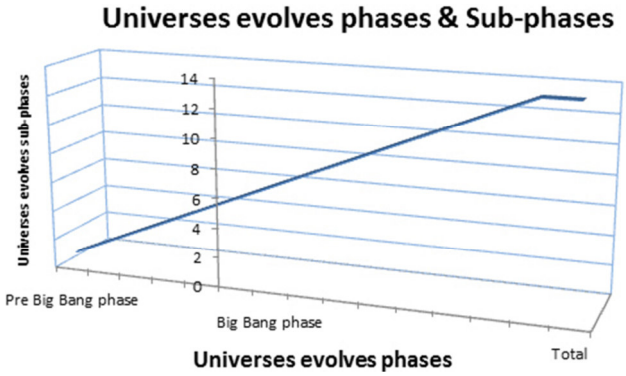


Fig.No.2-a: Blend pre Big Bang appears at the beginning of the universes evolves phases and sub-phases x-axis & y-coordinate.

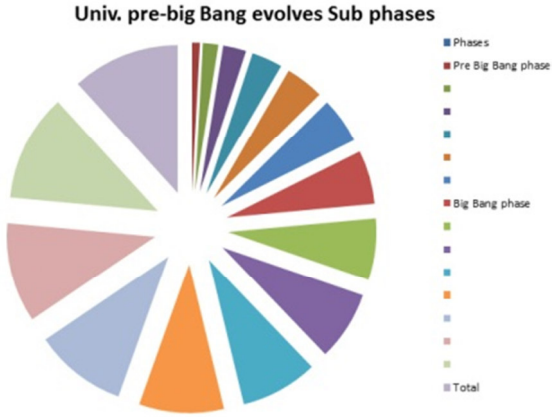


Fig.No.2-b: Compacted Pre Big Bang six sub-phases at the upper right quarter of the circle & the rest are opened Big Bang eight Sub-phases, and the last triangle is the total sub phase's amount.

3.4 Fundamental compact time:

It is not an accident from one hand to find the digit six as fundamental of a seconds, minutes, and hours, is also a digit of pre Big Bang sub phases compact time, from other hand. It has an outstandingly meaning; it is the access to explain time's body structure, its role and functions mysteries. Taking this coincidence in to account led to an idea of time's body structure.

3.5 Time's body structure

Time's matter consists of a quark's particles (Sura Anam, or Cattle. Verse.1-Quran). this particularity gives an opportunity to construct time's body and to understand its motion.

Time's body Hexagonal structure and its particles motions may extract from an applicable apportionment of six fold prayer's time (Salah Time, Wikipedia) in a day as describes in the following minutiae:

a) Immediately after the sun begins to decline in the afternoon.
b) In the late afternoon; when a shadow of a thing is double.
c) Immediately after the sun set.

These three portions are clinched to each other, and have clockwise direction as seen in Fig.No.3.

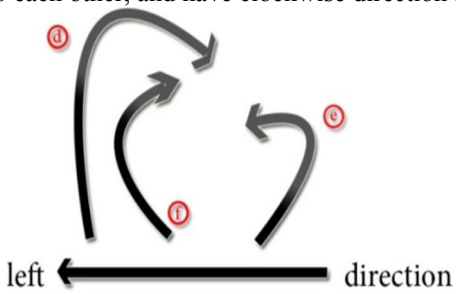


Fig.No.3: shows the extracting of the first part of time's body structure; where: a) The upper layer, b) The intermediate layer and c) The inner layer.

Each time's portion has its own name which formulates its position, and direction.
Last three definitions are here:
d) After the glow of the sun set diapered, and the full darkness of the night has set in.
e) At the last third of the night.
f) Down time up to sunrise.
Same figure appears here; but in the opposite direction; anticlockwise.Fig.No.4.

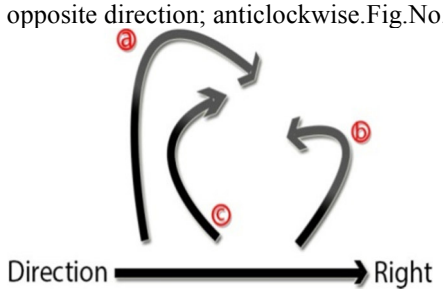


Fig.No.4: Showing the other part of time's body Structure; where: d) the upper layer. e) The intermediate layer. f) The inner layer.
The extracted time's body structure has isomorphic structure with flavor quarks in the neutron and the proton; where neutron is composed of two down quarks and one up quark, whereas the proton composed of two up quarks and one down quark (M.Muno witz, 2005).
Combination of Figs. 3 & 4 gives a time's body structure as shown in the following figure:

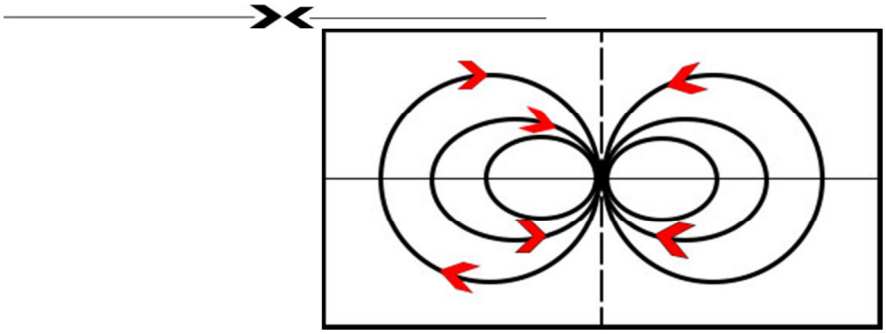
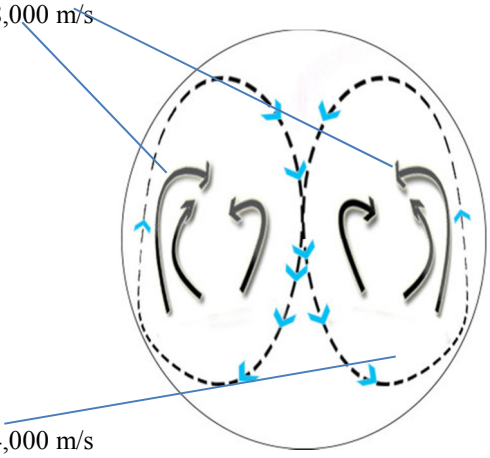


Fig.No.5: Six fold time's body structure.

3.6 Time's body mechanism
Time's body consists of pair circles forming the outside corpus, and six particles in two groups; three in each circle as seen in Fig.No.6-a.
15,289,415,358,000 m/s



45,868,246,074,000 m/s
Fig.No.6-a: Time's body within the inner time's particles, and outer corpus. Each single paticle has 15,289,415,358,000 m/s speed and each particle's group has
45,868,246,074,000 m/s speed.
Time's body has two mechanism's types; prosperity (progressive) and regressive mechanisms:
3.6.1. Prosperity (progressive) time's mechanism:
Prosperity mechanism dominant the universes evolve action in two phases; first blend prosperity time's mechanism phase, and second expansion prosperity time's mechanism phase.

First: Blend prosperity time's mechanism

In the first blend prosperity time's mechanism Fig.No.6-a time's body moves in two steps from inside particle's layers to the outside circles as explained below:

a) In the right circle:
The upper layer moves to the left and the middle layer moves to the right following by the inner layer motion to the left. Then all the right three time's particle group moves to the left side.

b) In the left circle:
The upper layer moves to the right and the middle layer moves to the left following by the inner layer moving to the right side. Then all the three time's particles group moves to the right side.

In the consequent of the inner motion both times' body circles move clockwise and anticlockwise motions for further processes; where the fundamental six particles connect through a concave of each corpus circle. The right three particles establish the inner part of a matter, whereas the left three particles form a matter's outer shape. Note that the gravity begins within this fundamental time's action - as describes here after in Time's Gravity Duty- to save the individuality and the whole universes from the collapse and blackout.

Blend prosperity time's mechanism manages universes evolves from the initial quark, hadron, baryons, nuclei, and atoms, molecules up to composite particles.

Indeed in the consequent of fission and fusion processes the fundamental forces; gravitational, electromagnetic, strong and weak nuclear forces act as a result of the blend prosperity time's mechanism. It is known that hadron made of quarks held together by strong force in a similar way as molecules held together by electromagnetic force (Fundamental interaction, Wikipedia). Note down that the gravitational forces as we will see here after also exist from the first action of time's body mechanism.

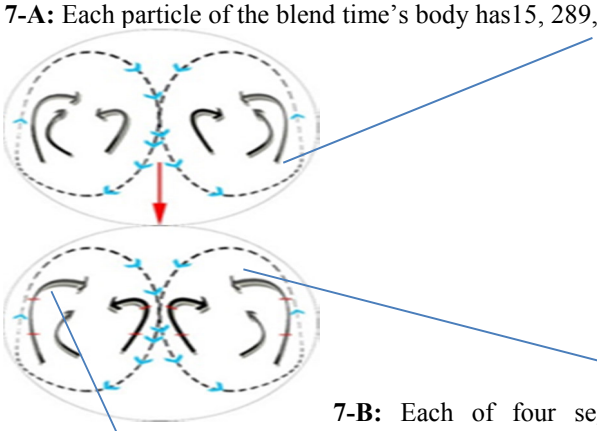
Second: Expansion prosperity time's mechanism phase

Expansion prosperity time's mechanism as a result of the blend time's mechanism has the same body structure, and acts in the same manner of their parents.

Comparison between the blend Fig.No.7-A and the expansion Fig.No.7-B time's body structures appears the differences in the six particles and their motion's time; they are in the expansion case segmented, multitude and have an additional motion's time; due to the expansion processes.

Fig.No.7 a&b: Comparison between the blend and the expansion time's body mechanisms.

7-A: Each particle of the blend time's body has15, 289,415,358,000 m/s motion's time.



7-B: Each of four segmented particle of the expansion time's body has 45,868,246,074,000 m/s speed, and each of the two segmented less particles has 15,289,415,358,000 m/s speed.

3.6.2. Regressive time's mechanism:

Nuclear fusion and nuclear fission are different types of reactions that release energy due the presence of high-powered atomic bonds among particles found within a nucleus. In fission an atom is split into two or more smaller, lighter atoms. Fusion in contrast occurs when two or smaller atoms fuse together creating a larger, heavier atom.

To distinct origin's energies from the final collapse's energies; the so called Black-hole we may call the origin's one a White-hole. Scientists have proof that every large galaxy contains a supermassive (black hole) at its center.

Universe time's mechanism begins with White Hole prosperity energy; it exists within the great galaxies, and the opposite's regressive time's mechanism ends partial with a Black Hole.

The differences between the White Hole and the Black Hole are the direction; while the first type moves anticlockwise progressively, the other type moves regressively, clockwise. The other difference is the attractive forces; where it is friendly in white-hole, and aggressively in black-hole case.

Retrograde motion phenomenon (Wikipedia) is an intermediate phase between the white progressive hole, and the black regressive hole; it is the end of anticlockwise and the begins of clockwise motions.

3.7 Time's Bang

Time's body motions unveil the great Big Bang mystery; how it could happen, and how it could start?

Time's mechanism motion is an access to understand the general universes evolve, and the special Big Bang event. Its expansion mechanism emphasizes its building role in the space-time evolve processes.

Time's compact and multitude(ruptured) types confounds universes building time in two phases; where the first -Pre Big Bang- is responsible for primitive basic state as exhibited in Fig.No.8. The second –Big Bang- is for the more develop phase Fig.No.9.

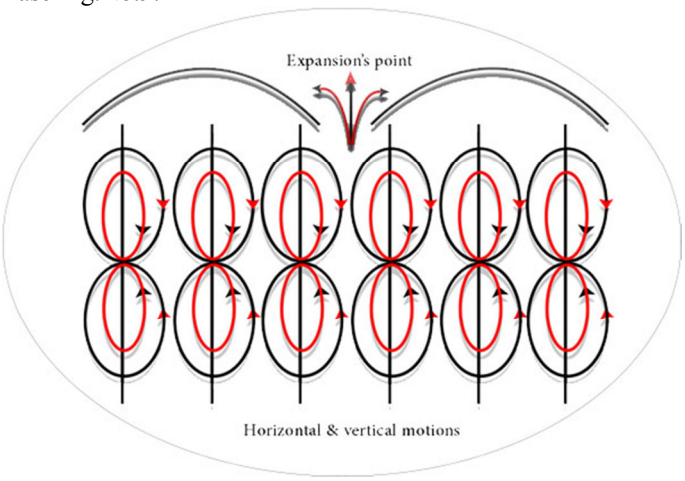


Fig.No.8: Pre Big Bang's time's sub phases' motions prepare the universe for further expansion; where each sub phase acts by the same time's mechanism respectively.

Vertical and horizontal of time's mechanism's motions of the solid joint space-time during the pre-Big bang phase prepares primitive universe to the great Big Bang phase. In other ward it is proves now that time's expansion particularity is a unique Bing Bang's phenomenon factor as depict in Fig.No.9

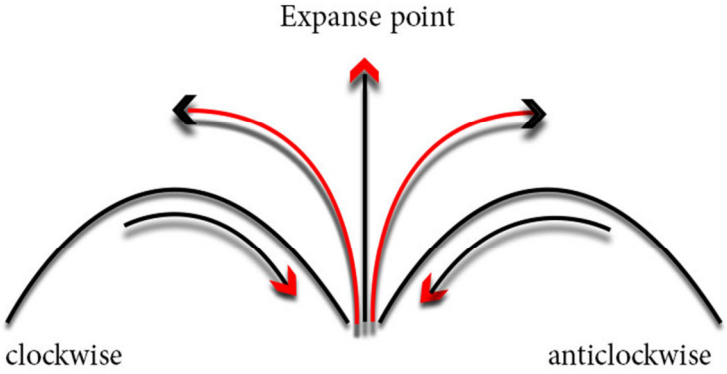


Fig.No.9: Time's expanse point is the consequent action of pre Big Bang time's general mechanism. It shows Time's Bang action.

Note down that both pre Big Bang and Big Bang phases are connected; one establishes universes basic content, and the other forming the accomplishment processes as shown in Fig.No.10:

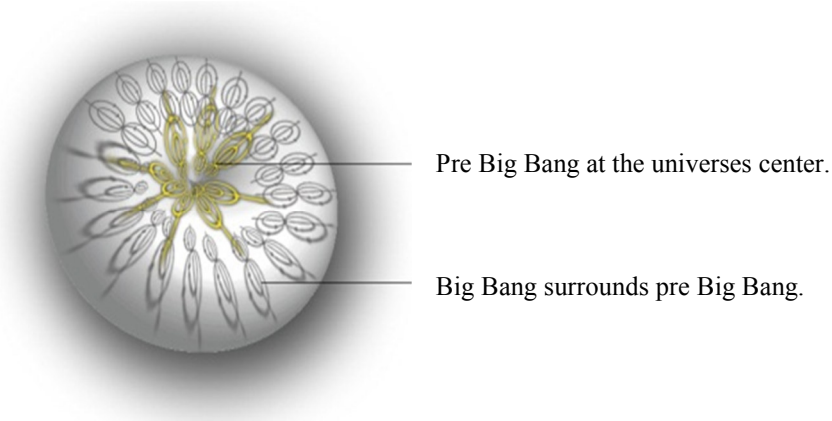


Fig.No.10: Pre Big Bang & Big Bang connection in the same space-time universes place.

So time's expansion characteristic construes the importance of pre Big Bang as fundamental base of the Great Big Bang. Time's expansive action and not an extensional explain space-time expansion within the universe and not out.

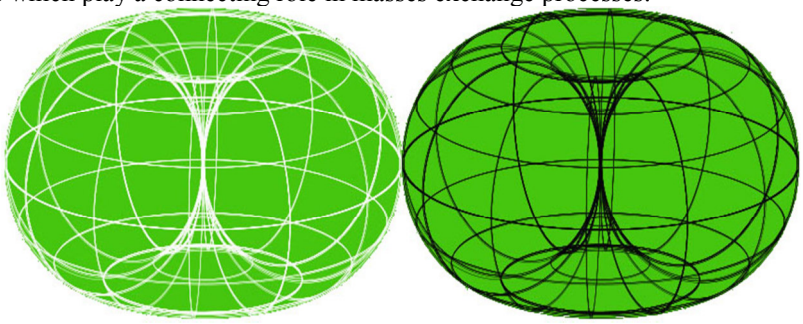
These arguments emphasize that time's mechanism has not only an indication function but also an expansion and building role in whole universes evolves actions. It is Time's Bang Theory.

3.8 Universe's Light-Darkness mechanism

Universe Light-Darkness mechanism is time's practice action; it evinces time's building role and its indicating function in two coincidence building and indicating stages:

3.8.1Building's mechanism stage

Time's mechanism motion produces first basic light and darkness circles (Fig.No.11) where a concave appears at the tops and the bottoms which play a connecting role in masses exchange processes:



L **D**

Fig.No.11: Light (L) & Darkness (D) basic circles.

Segmented circles fig.12 as a result of time's mechanism expansion is the initial processes for Light-Darkness mechanism:

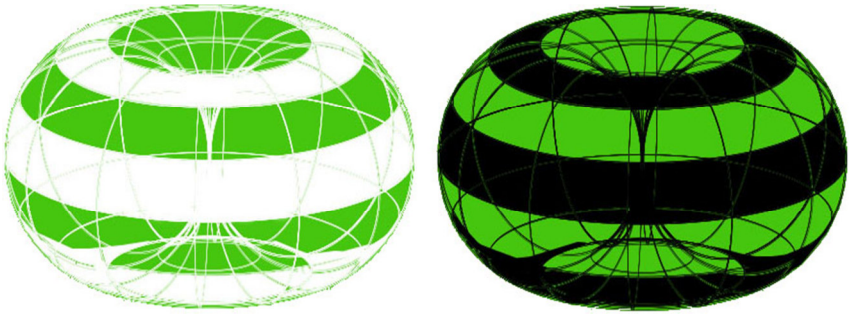
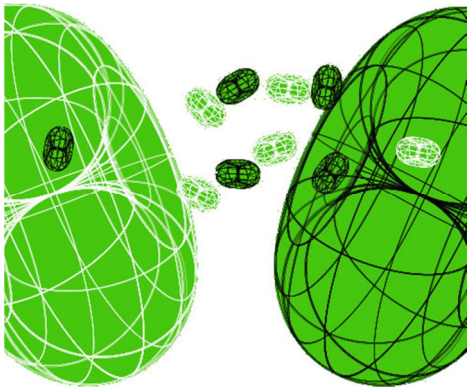


Fig.No.12-a:

Light-Darkness assortments emerge in the two phases:

First: Merging phase

In this phase segmented circles as a result of expansion time's mechanism (Fig.No.12-b) exchange their masses through circle's concaves; darkness merges in the light circle, and the light merges in the darkness circle. Merging processes happens at the same moment during ten sub phases times (Sura Hajj.Verse.61-Quran) (Sura Luqman. Verse 29-Quran) (Sura Fatir Verse.13-Quran) (Sura Hadid Verse 6-Quran) and (Sura Al-imran Verse .27-Quran)



12-b

Fig.12-b: Merging processes; where L & D masses exchange

The final exchange process produces the following figures:

Fig.No.12-c/1 Fig.No.12-c/2

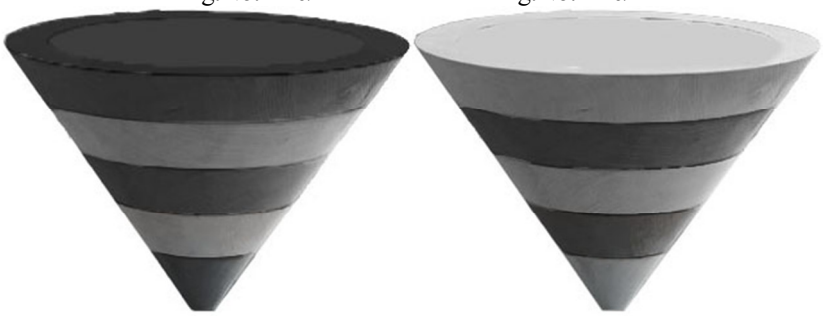


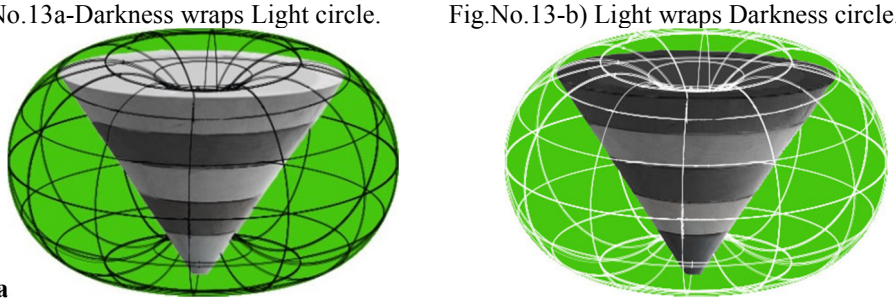
Fig.No.12-c/1 & 12-c/2: Light circle Fig. 12– c/1 - includes darkness masses, and darkness circle Fig.12– c/2 - includes light masses.

Evidence of merging exchange deduced in the quarks flavors mechanism; where a quark of one flavor can transform in a quark of another flavor only through the weak interaction. Any up-type (up, charm, and top) can change in to any down-type quark (down, strange, and bottom) and vice versa. This flavor transformation mechanism causes the radioactive process of beta decay (K.Nakamura.et al 2010).

Second: Rapping phase

Here darkness wraps the light circle, and at the same action the light wraps the darkness circle (Sura AZ-Zumar. Verse 5 -Quran) as depict in Fig. No.13 a & b

Fig.No.13a-Darkness wraps Light circle. Fig.No.13-b) Light wraps Darkness circle.



13-a **13-b**

Merging and rapping processes combination shown in Fig. No.14

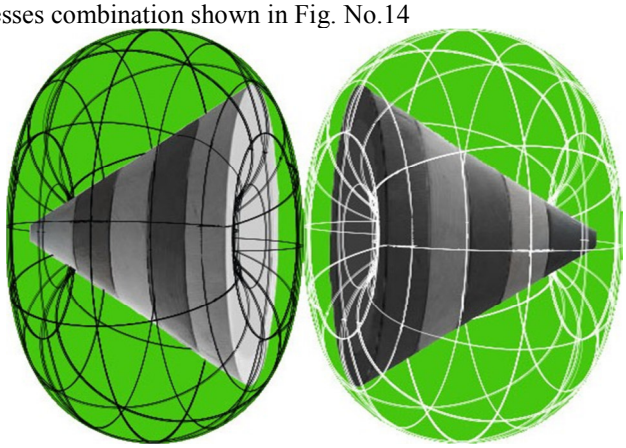


Fig.No.14: combination of merging and rapping processes

This assembly shows time's inner and outer building's structure. It has double six fold structure in both body's circles which move inversely for further universes duties.

3.8.2 Indicating's mechanism stage (lightning & darkening)

Time's indication function manages in two steps; obliteration (Surat Bani Isra-il. Verse 12-Quran) and Scalping (Sura Ya-Sin. Verse 37)

In the obliteration process Fig. No.15. the darkness's circle erased by light's circle.

So while the light attends in the first step; the darkness in the consequent of light's withdrawn exists in the withdrawn step Fig. No.16

Fig.No.15: Obliteration process.

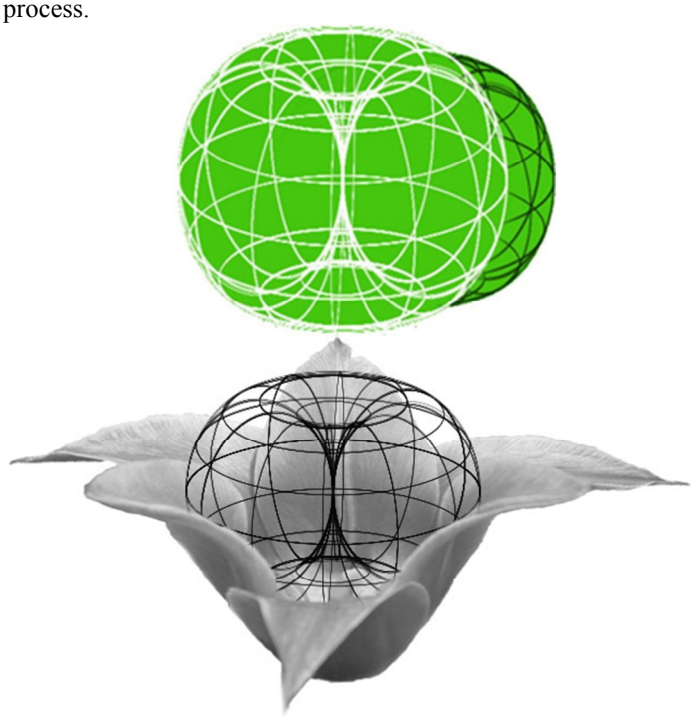


Fig.No.16: Light's withdrawn.

Conjoined appear of light and darkness in the result of erased and withdraw mechanism evinces time's indicating function in the whole universes evolving processes.

Synchronization of Light-Darkness mechanisms in the same manner of time's six fold structure emphasize its actions in both universes phases before and after the Great Big Bang; from the early quark state up to the great universe.

Proliferation (Sura At-Takwir Verses 17 & 18) and petering-turnout (Sura Al-Mudathther Verses: 33 & 34) are the last action of Light-Darkness mechanism.

In the proliferation processes darkness and light start their distributions in the opposite directions of their circles.

Darkness peters gradually while the light turnout at the last indicating function.

In the consequence of expansion particularity Light-Darkness mechanism shows the general time's building contribution in the universes space-time evolve.

Light-Darkness mechanism emphasizes that time's building role is compact at the first universes phase before the Great Big Bang and opened in the next.

Light-Darkness mechanism gives full idea of universes connection. Whatever its space-time curvature or its functional position; it is permanently connected by its natural hollowness, which comes from the initial concave of the beginning light and darkness circles.

3.8.3 Light-Darkness mechanism's law

This Light-Darkness mechanism allows framing a law to determine a time's role and function in any micro or macro universes process, and to get building, lighting, and darkening time's percentages as depict in Fig.No.15 and tabulated following tables: 3 and 4:

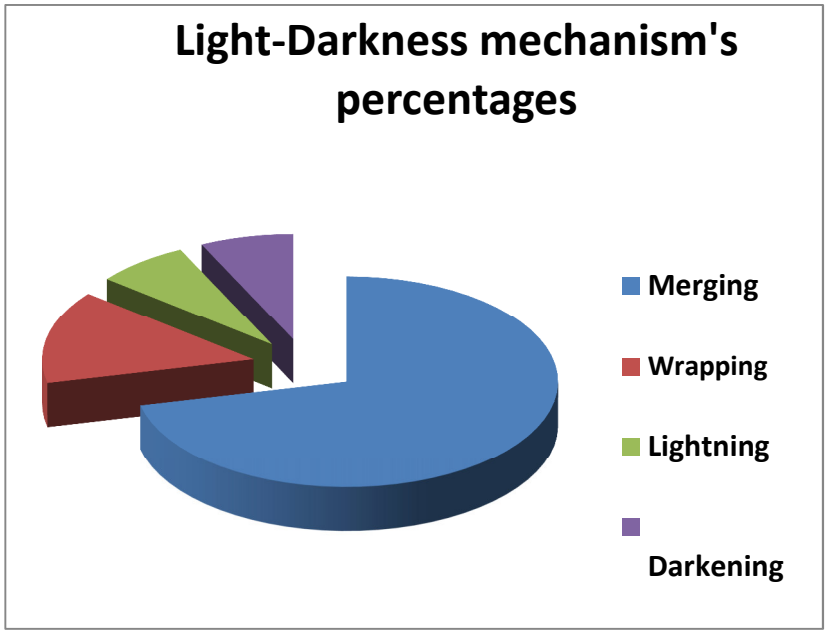


Fig.No.17: Light-Darkness mechanism's percentages

Table No.3: Light-Darkness mechanism's percentages

Mechanism's name	Equation	Result (Percentage)	Comment
Merging	10/14 x 100	71.4 %	10 are merging sub phases. 14 are L-D phases
Wrapping	2/14 x 100	14.3 %	2 are wrapping sub phases
Lightning & Darkening	2/14 x 100	14.3 %	2 are L & D Sub phases
Building percentage	12/14x100	85.7 %	12 are merging + wrapping sub phases

TableNo.4: Light-Darkness Time's Ratios:

Mechanisms' Name	Time's Ratios' equation	Comment
Merging's time	71.4 X N / 100	N is a total process' time
Wrapping's time	14.3 X N / 100	N is a total process' time
Building's time	85.7 X N /100	N is a total process' time

Praxis of L-D mechanism's ratios demonstrates in the following calculations of evolves periods before and after the great Big Bang:

3.8.4 Pre Big Bang L-D mechanism's ratios

Pre Big Bang merging's time =
71.4 x 91,736,492,148,000 / 100 = 65,499,855,393,672 m/s
Pre Big Bang wrapping's time =
14.3 x 91,736,492,148,000 / 100 = 13,118,318,377,164 m/s
Pre Big Bang Lightning-Darkening's time = 13,118,318,377,164 m/s

Big Bang L-D mechanism's ratios

Big Bang merging's time =
71.4 x 122,315,322,864,000 / 100 = 87,333,140,524,896 m/s
Big Bang wrapping's time =
14.3 x 122,315,322,864,000 / 100 = 17,491,091,169,552 m /s
Big Bang Lightning-Darkening's time =17,491,091,169,552 m /s
Fig.No19. shows pre Big Bang and Big Bang Building's time's ratios

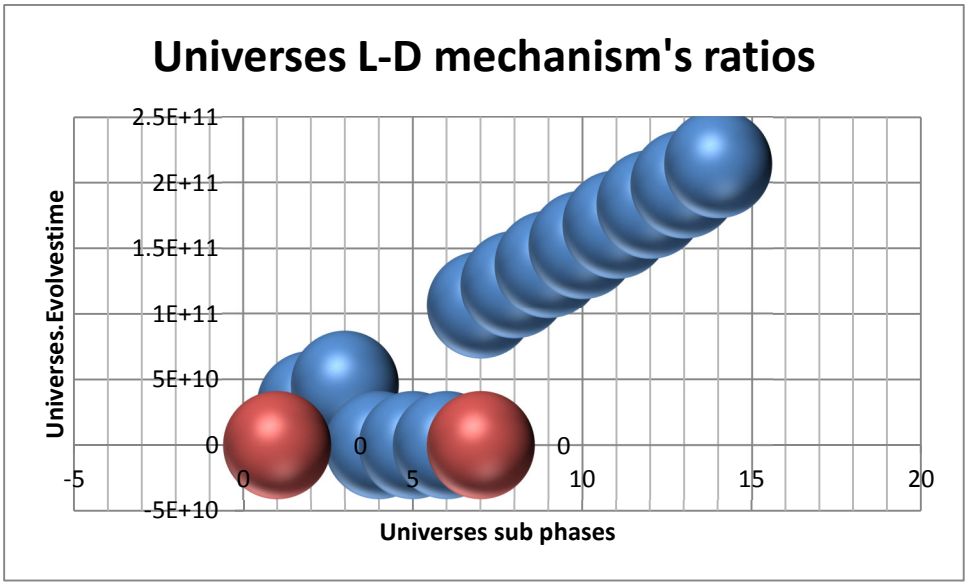


Fig.No.18: Universes Building's time; where pre Big Bang time's ratio
Is 78, 618,173,770,836 m/s and Big Bang time's ratio is
104, 824,231,694,448m/s note down that according to Universes
L-D Law Building time's ratio = Merging's time + Wrapping time.
These ratios 'results show homomorphism between the pre Big Bang and the Big Bang evolves processes.
To understand universes phases telescope, and to draw a general graph some estimation should be done:
Each phase of the universes evolve motions has its sub phases; pre Big Bang has Six Sub phases, and the Big Bang has eight sub phases. The total is 14.
According to the L-D mechanism's law universes merging processes passed in ten sub phases; whole the pre Big Bang sub phases, and the first four sub phases of the Big Bang.
The last four Big Bang's sub phases went for wrapping, and lightning, darkening processes as estimates below:
1) Universes' merging's time =
71.4 X N/ 100 = 71.4 x **214,051,815,012,000 m/s /100 =**
152,832,995,918,568 m/s
Where N = Total Universes Time
2) Universes wrapping's time =
14.3 X N / 100 = 14.3 x 214,051,815,012,000 m/s /100 =
30,609,409,546,716 m/s
3) Universes' building's time =
85.7 X N /100 = 85.7 x 214,051,815,012.000 m/s /100 =
183,442,405,465,284 m/s
4) Universes lightning- darkening's time =
14.3 X N / 100 = 14.3 x 214,051,815,012,000 m/s /100 =
30,609,409,546,716 m/s
General Universes evolves time depicts in the following table No.5 and Fig.No.19:

Table No.5 of General Universes Evolves Time

Univ. evolves phases	Univ. evolves Sub phases	Universes Sub phase 'time	Universes evolves periods	Universe Merging's time	Universes wrapping's time	Universes Lightning - Darkening's time	Universes L-D Building's time
Pre Big Bang phase	1	15, 289, 415,358	91,736,492,148,000 m/s	65,499,855,393,672 m/s	13,118,318,377,164 m/s	13,118,318,377,164 m/s	78,618,173,770,836m/s
	2	30,578,830,716					
	3	45,868,246,074					
	4	61,157,661.432					
	5	76.447.076.790					
	6	91.736.492.148					
Big Bang phase	7	107,025907506	122,315,322,864,000 m/s.	87,333,140,524,896 m/s	17,491,091,169,552 m /s	17,491,091,169,552 m /s	104,824,231,694,448m/s
	8	122,315,322,864					
	9	137,604,738,222					
	10	152,894,153,580					
	11	168,183,568,938					
	12	183472,984,296					
	13	198,762,399,654					
	14	214,051,815,012					
Total	14		214,051,815,012,000 m/s.	152,832,995,918,568 m/s	30,609,409,546,716 m/s	30,609,409,546,716 m/s	183,442,405,465,284m/s

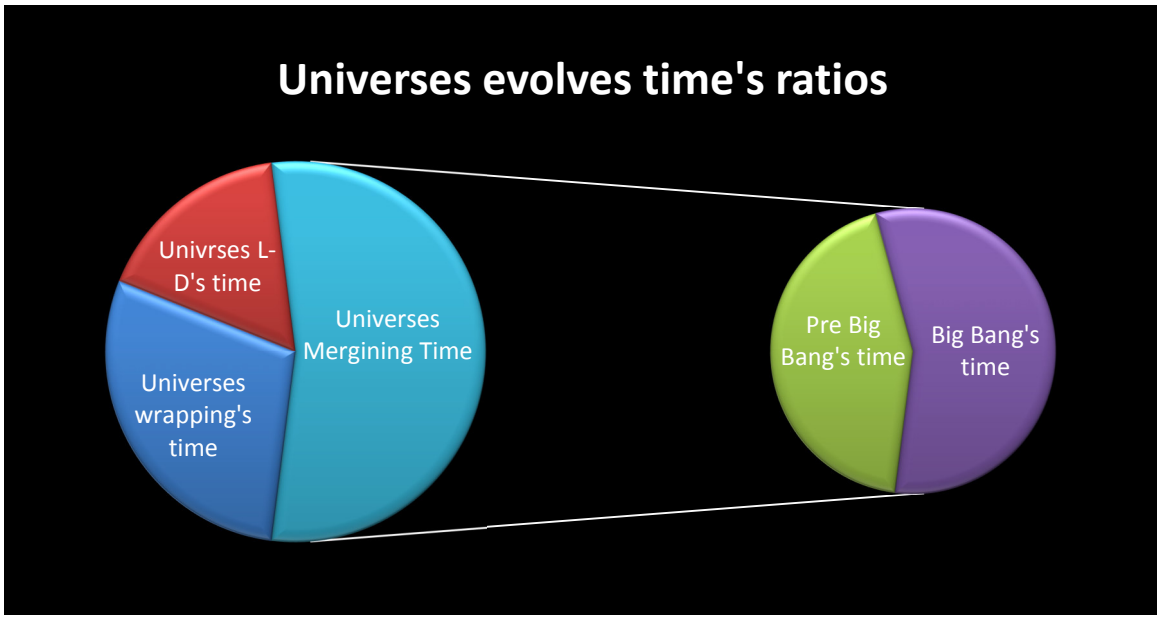


Figure No.19: Universes evolves time ratios; Pre Big Bang & Big Bang's time in the right circle, and universes merging- wrapping's time & lightning-darkening's time in the left circle.

The common endnote on these calculations and its graphs are the following:

Pre Big Bang phase is basic in the universes building; where half of the universes material initiated in its sub phases duration.

Fundamental nucleosynthesis and molecules processes are Pre Big Bang concern.

Time begins in Pre Big Bang phase; so the Great Big Bang is result of time's expansion' mechanism actions; a matter which evokes a new nomenclature; it is Time's Bang.

Universes positioning of stars, planets galaxies and clusters, and their core and body preparations should have happen in Pre Big Bang phase, while the features and singularity, totally functions, roles and duties' compilation went during the Great Big Bang.

3.9. Time's multitude characteristic

Time in the second phase of the universe' develop is opened; multidimensional and polymorph. It should be more specify in formation, features, individuality. Earth's preparation passed in three quarters (6) of the open sub phases, and the rest (2) sub phases' time went for heaven's accomplishment (Sura Ha-Mim Verses : 10, 11, 12 - Quran) as estimated here according to the first Universe's Time's law:

Since 15,289,415,358,000 m/s x Sub phase's numbers = evolve period

Then Earth's preparation time =15,289,415,358,000 m/s x 6 = 91,736,492,148,000 m/s

Heaven accomplishment's time = 15,289,415,358,000 m/s x 2 =

30578830716000 m/s

Time's multitude conditions in this phase evince its compact state in the first phase, and emphasize its similarity in the building role and indicating function.

Months plurality appears at this phase assures the completion of time evolution; twelve months a year (Sura-Tauba Verse 36-Quran).

Time's begins in pre Big Bang phase has an initial meaning of its action on the universes evolve specification:

3.9.1. Space-time origin:

In the early speculations scientists (R. A. Alpher, H. Bethe, and G. Gamow 1948) believed that universe - as a result of the great Big Bang - was a highly compressed of neutrons, some of which were able to decay into protons and electrons. Protons could then capture neutrons, together making deuterium nuclei-an isotope of hydrogen; that has one proton and one neutron.

Later on Big Bang Nucleosynthesis Theory (Scientificamerican.com) gave another idea. All protons, neutrons and electrons moved about freely, and did not come together to make atoms. Only three minutes later, when the universe had cooled, could light element formation begins. Neither the earlier speculations nor the recent theory gave an adequate imagine of this issue; the emanation is not clear. If it is right what could happened in the long pre Big Bang period?

A gap between the two universe's evolve phases' periods is very great, and necessitates a panoramic verification.

Long period of the first phase -91,736,492,148,000 m/s- where the time's mechanism has a building characteristic seems to be completely responsible for universe's nucleosynthesis and consequentially the elements. The densities and energies of the particles were great enough to initiate fundamental nuclei, and further elements:

Space–time physically accelerated motion - as above deducted - could have produced light particles from the first second of the first phase before Bing Bang. Generation, fusing and dichotomy processes of protons, neutrons, and electrons goes respectively, so the first atom and the consequent elements. This space-time phase prepares primitive universe for the Great Bing Bang. In this case one can plot a graph, where the time is function of physic-chemical develops processes, and regards time's beginning to the first universes evolve phase. Then the observational events are deducible, as was expected by Prof. S. Hawking in his. Lecture on the beginning of time.

3.9.2. Earth creation:

Big Bang is the second universes evolves phase, it takes total period: 122,315,322,864,000 m/s. 75% **(91,736,492,148,000 m/s)** of it went for earth creation as explained above. This special space-time period attendance means that the earth is a universe brain like and all these great galaxies are universe's peripheral organs from inside.

3.9.3. Sky completion:

Sky completion process did in the rest 25% of Big Bang evolves period; 30,578,830,716,000m/s of the second phase.

4. Universes Time's Gravity

Equilibrium between the universe's expansion and the probability of collapse or evanescence is time's duty. It is in this theory a universe's gravity stability and expansion constancy relationship issue.

Albert Einstein in 1915 describes gravity not as a force but as a consequence of the curvature of space-time caused by the uneven distribution of mass/energy; and resulting in gravitational time dilation where time lapses more slowly in stronger (lower) gravitational potential.

However for most applications gravity is well approximated by Newton's law of universal gravitation, which postulates the gravity as a force; where two bodies of mass are directly attracted to each other according to a mathematical relationship, where the attractive force is proportional to the product of their masses and inversely proportional to the square of distance between them.

Regarding to Time's Bang Theory universes gravity has a new concept, where the universes dark matter and its energy manage the universes equilibrium. The task here is to prove the harmonization between the constancy of the general and the individual universe's gravity, and the function of the second thermodynamic

law which states that entropy must increase over time. There is no any discrepancy because disorders exist partly (Sura Takwir.Verse.1-Quran).

The importance of these concept from one side is to clarify the differentiation among positive, negative, and zero space-time curvatures from time's view point. It is an attempt to give evidence which of cosmological scenarios is scientifically correct; the close or the open universe. From other side it an attempt to through light on universes dark matter and the function of dark energy.

4.1. Current's types: Universes time's equilibrium found to be controlled by two great time's circles Fig.No.20 where gigantic currents of energies bifurcate in two types of universe's wave's currents (Sura Saba Verse. 2-Quran) (Sura Hadid.Verse.4-Quran).

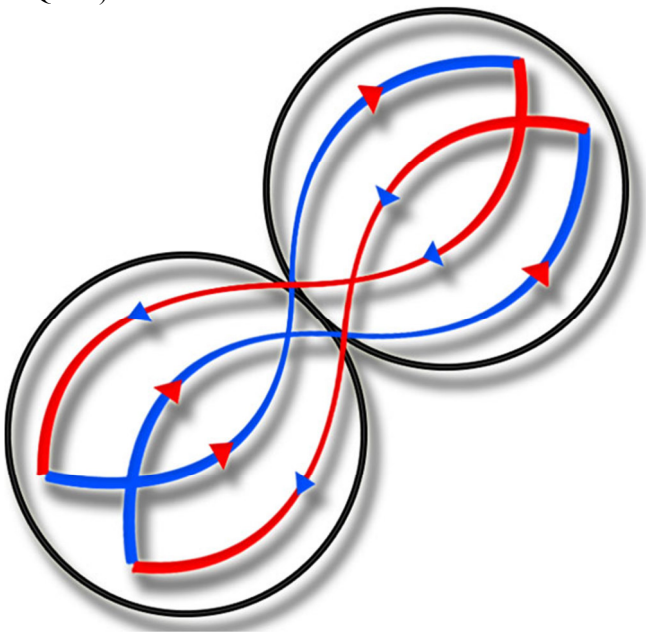


Fig.No.21: Great time's circles managing universes gravity.

Each type subdivided in to four groups:

The first two group's currents (Red Arrows) go in to the earth and the second two (Blue Arrows) come out symphonically with third group comes down (Red Arrows) from the heavens, and fourth group (Blue Arrows) that ascends there as seen in Fig.No.21:

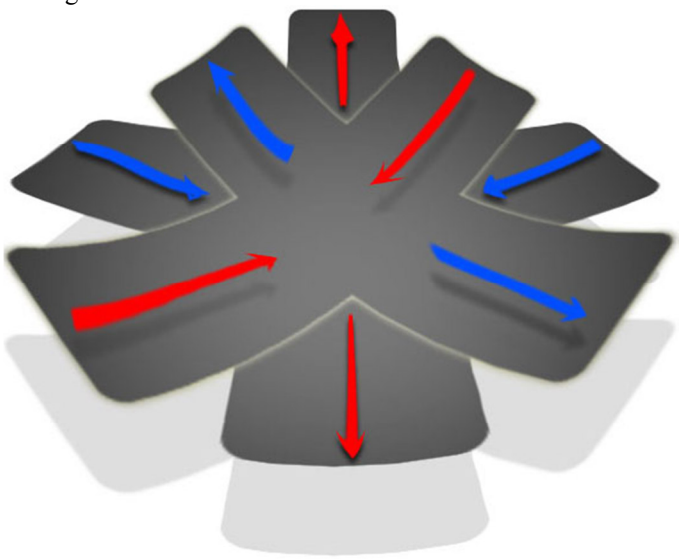


Fig.No.21: Depict two universe's gigantic currents of energy & their eight groups. These harmonies of gigantic currents build the universe moving pillars.

These moving pillars spread everywhere; not only among planets, stars, and galaxies, but also in any single atom. They are balancing the outer figure and the inner contents of the whole universe; in the so called universe 'equilibrium.

Although the two types of gigantic currents have the same motions among the heavens and the earth, they have different functions as describe below:

4.2. Currents' functions:

These gigantic currents have two functions; first withholding the heavens (Sura Hajj. Verse 65-Quran) to avoid the universes inner parts to collapse; it is conservation function as depict in the following figure.

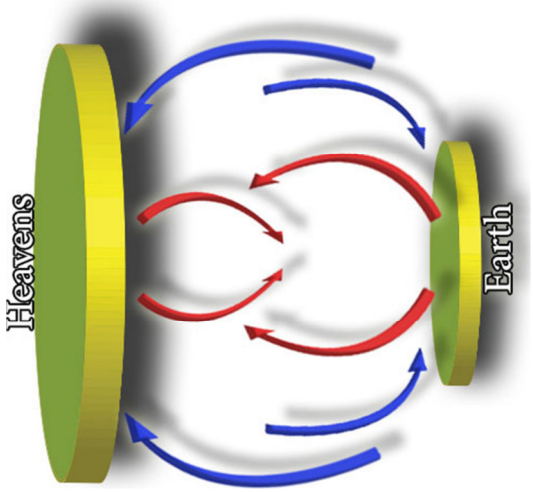


Fig.No.22: Conservation functions to avoid universes collapse.

Second confinements the universes' outer figure from evanescent; it is prevention function**;** see Fig.No21 down:

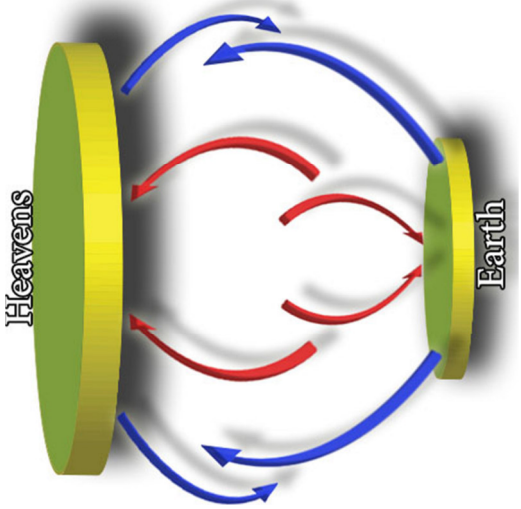


Fig.No.23: Prevention functions from evanescent.

The earth in universes equilibrium is not a geographic center it is an attractive and reflection center. Here another evidence of the special attention has been paid on the earth long period preparation.

Note down that the previous Figures No.22 & 23 depicts the universe 'currents functions vertically, and the following Fig.N.24 depicts these currents horizontally:

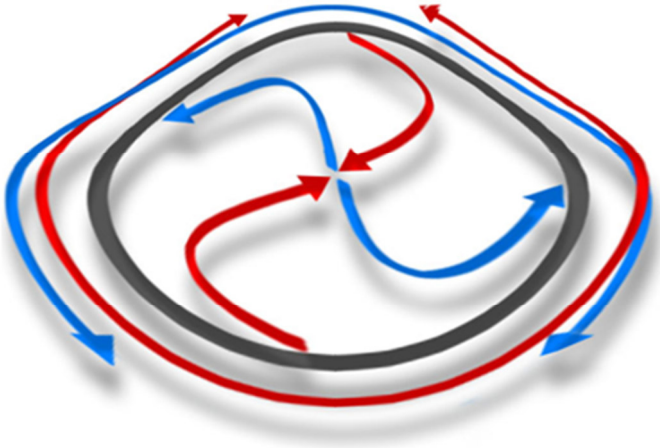


Fig.No.24: Horizontal view of the inner and outer gigantic currents function; where the inner currents in the center.

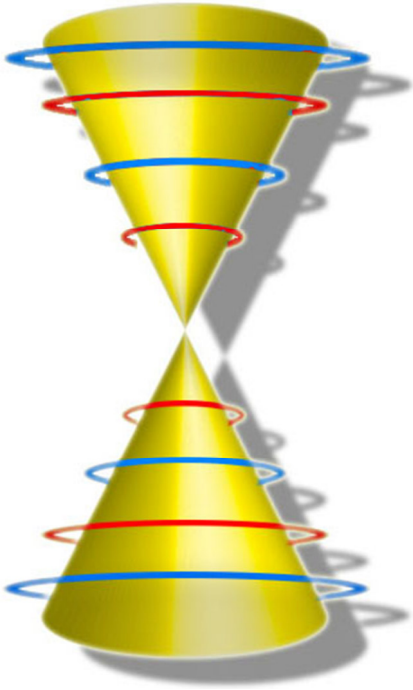


Fig.No.25.General View of universes time's gravity; shows similarity in actions differences in duties.

4.3. Source of universes gravity 'gigantic currents

In the first part of this essay it's stated that motions and directions of the fundamental compact and opened time keep its expansibility character in growth manner of the universe. In the same manner this time's mechanism generated energies in two general time's circles which produce gigantic waves 'currents. These currents are the universe's equilibriums pillars.

4.4. Universes time's gravity speed

General time's speed:
15,289,415,358,000 m/s x 8 = 122,315,322,864,000 m/s
Where 8 = Groups of the universes gigantic currents
122,315,322,864,000 m/s/2 = 61,157,661,432,000 m/s
Where: 2 are the main universe gigantic current.
So each time's circle has 61,157,661,432,000 m / s speed as shown in Fig.No.26

Fig.No. 26: The general time's gravity speed of inner and outer universes equilibrium.
Gravity here is a consequence of gigantic universe's currents produced by two great time's circles motions.

5. General Time's Mechanism' Motions

Time's expansion particularity in the consequent of clockwise and anticlockwise motions of its pair body circles under the pressure of their inner six particles movement specifies time mechanism as following:

5.1. Building role:

Initiates with merging of darkness circle in light circle and in opposite direction light circle merging in darkness circle, then finished with rapping processes; where darkness circle wraps light circle and light circle wraps the darkness circle.

5.2. Lightning and darkening functions:

Time's indication function manages in two steps; obliteration and Scalping. In the obliteration process the darkness's circle erased by light's circle. So while the light attends in the first step; the darkness as consequent of lights withdrawn exists in the withdrawn step.

5.3. Time's gravity duty:

Universes gigantic currents ruled by two great time's circles to avoid universes collapse, and prevent universes evanescence. These gigantic currents indicates dark matter role in the universes equilibrium issue, and supports universes shape in the so call universe pillars.

So time's mechanism dominants universes expansion, building role, indicating functions, and equilibrium duty not only among planets, stars, galaxies, and clusters but also in any single atom.

So we have to qualifier the concept of time according to these new results**:**

Time is a quark made, it has six fold body structures in pair inversion's motion circles; clockwise and anticlockwise motions. It occurs in compact and multitude types. It begins and evolves at the first pre Big Bang phase of the universes evolve. Its Similarity in expansion particularity in both universe's evolves phases emphasizes space-time solid connection. Time has building role, lightning-darkening function, and gravity duty.

Conclusions

Time begins in the pre Big Bang phase; before the Great Big Bang. It occurs compacted in the Pre Big Bang phase and multitude in the Great Big Bang phase.

Time's body structure consists of pair circles forming the outside corpus, and six particles in layers; three in each circle. In the consequent of the inner motion both times' body circles move clockwise and anticlockwise motions in an expansion manner for further building role, lightning and darkening functions, and gravity duty.

Vertical and horizontal expansion motions of the solid joint space-time during the pre-Big bang phase prepares primitive universe to the great Big Bang phase. Time's expansion particularity is a unique Big Bang's phenomenon factor. Its expansion characteristic construes the importance of pre Big Bang as fundamental base of the Great Big Bang.

Time's expansive action and not an extensional explain space-time expansion within the universe and

not out.

Time's mechanism has not only an indication function but also an expansion and building role in whole universes evolves actions. It is Time's Bang Theory.

Universes Darkness-Light mechanism demonstrate time's role and function in two coincidence building and indicating stages. Light-Darkness mechanism allows framing a law to determine a time's role and function in any micro or macro universes process, and to get building, lighting, and darkening time's ratios as tabulated in the following tables:

Light-Darkness mechanism's percentages

Mechanism's name	Equation	Result (Percentage)	Comment
Merging	10/14 x 100	71.4 %	10 are merging sub phases. 14 are L-D phases
Wrapping	2/14 x 100	14.3 %	2 are wrapping sub phases
Lightning & Darkening	2/14 x 100	14.3 %	2 are L & D Sub phases
Building percentage	12/14x100	85.7 %	12 are merging + wrapping sub phases

Light-Darkness Time's Ratios:

Mechanisms' Name	Time's Ratios' equation	Comment
Merging's time	71.4 X N / 100	N is a total process' time
Wrapping's time	14.3 X N / 100	N is a total process' time
Building's time	85.7 X N /100	N is a total process' time

Long period of the first phase -91,736,492,148,000 m/s- where the time has a building characteristic assure to be completely responsible for universe's nucleosynthesis and consequentially the elements.

Each phase of the universe evolution has its own evolves period:

Pre Big Bang evolves period = 91,736,492,148,000 m/s

Big Bang evolves Period = 122,315,322,864,000 m/s

Total Universes evolves period = 214,051,815,012,000 m/s

Big Bang's Beginning time = 91736791940458 m/s.

Time's clockwise and anticlockwise motions generate universe 'energies in two general circles which produce gigantic energy 'currents. These harmonies of gigantic currents build the universe's moving pillars.

These moving pillars spread everywhere; not only among planets, stars, and galaxies, but also in any single atom. They are balancing the outer figure and the inner contents; in the so called universe 'Time's Gravity.

The general functions of the universes equilibrium currents are two, to avoids universe 'collapse, and to conserves universe from evanescence.

Gravity here is a consequence of gigantic universe's currents produced by two great time's circles motions which initiates at the begging of pre Big Bang phase through the Big Bang phase up to the optimum of universes time's building. Note that the balance between the constancy of the universe's equilibrium and the function of the second thermodynamic low is improvable.

Earth is not a geographic center, but it is a universe's attractive and reflection motions center.

This Time's Bang Theory concludes that time comes from nowhere; it is apparently fixture of the existence.

Acknowledgement:

I would like to take this opportunity to thank the great Genius Prof. Stephen Hawking for his interesting book; Brief History of Time. This amazing book inspires me to search the secrets of time along last twenty years.

Thanks go also to Mr. Awwab A. Alsayed for his keen assistance in preparing all figures with a lot of patient.

References

A. Einstein, H. A. Lorentz, H. Weyl, H. Minkowski, (2000). The Principle of Relativity, Dover Publications, Inc. , softcover 216 pages, ISBN 0-486-60081-5, See pp. 37–65 for an English translation of Einstein's original 1905 paper.

Adam Frank, (2011).Cosmology and Culture at the Twilight of the Big Bang. P. xv, Free Press, ISBN 978-1439169599

Adler, Mortimer J., PhD.(2011)"Natural Theology, Chance, and God".

Al-imran P. 23 Verse No.27.

American Heritage Dictionary of the English Language (Fourth Ed) (2011) Houghton Mifflin Company.. "A nonspatial continuum in which events occur in apparently irreversible succession from the past through the present to the future

Betz, Hans Dieter, ed. (2008). Religion Past & Present: Encyclopedia of Theology and Religion. 4: Dev-Ezr (4

Ed.) Brill P.101 ISBN 9789004146884 Retrieved 2015-08-20
Burnham, Douglas, (2006) Gottfried Wilhelm Leibniz (1646–1716) Metaphysics Space- Time and Indiscernibles the Internet Encyclopedia of Philosophy Retrieved 9 April 2011
Compact Oxford English Dictionary,(1971). A limited stretch or space of continued existence, as the interval between two successive events or acts, or the period through which an action, condition, or state continues.
Corry, L. (1997). Hermann Minkowski and the postulate of relativity Arch Hist Exact Sci Springer-Verlag 51 (4): 273–314. Doi.10.1007/BF00518231. ISSN 0003-9519
Encyclopedia Britannica (1992).The Great Ideas Today
English translation of Quran www.streathammosque.org/uploads/quran/english-quran
Fundamental interaction https://en.wikipedia.org/wiki/
Ghandchi, Sam: Editor/Publisher (16 January 2004). Space and New Thinking Retrieved 9 April 2011. ""
Guinness Book of Baseball World Records Guinness World Records, Ltd. Retrieved 7 July 2012.
Hawking Stephen Lecture on the beginning of time http://www.hawking.org.uk/the-beginning-of-time.html
Hawking Stephen (1996) the Beginning of Time
Hawking Stephen (2012) lectures on the origin of the universe".
Hawking Stephen (2006) a Brief History of Time
Herman M. Schwartz (1977) Introduction to Special Relativity, McGraw-Hill Book Company, 1968, hardcover 442 pages see ISBN 0-88275-478-5, pp. 10–13
Internet Encyclopedia of Philosophy" 2010 Retrieved 9 April 2011.
K.Nakamura; et; et al.(2010). "Review of Particles physics. The CKM Quark-Mixing Matrix" J of physics G 37:075021
Kelly oakes (.2011) Scientificamerican.com
Le Poidevin, Robin (2004). The Experience and Perception of Time In Edward N Zalta The Stanford Encyclopedia of Philosophy Retrieved 9 April 2011
Lundin, Roger; Thiselton, Anthony C. Walhout, Clarence (1999) The Promise of Hermeneutics Wm. B. Eerdmans Publishing p 121 ISBN 9780802846358 Retrieved 2015-08-20 "We need to note the close ties between teleology, eschatology, and utopia. In Christian theology, the understanding of the teleology of particular actions is ultimately related to the teleology of history in general, which is the concern of eschatology."
Mattey, G. J.: UC Davis (1997). "Critique of Pure Reason, Lecture notes: Philosophy 175 UC Davis Retrieved 9 April 2011.
McCormick, Matt (2006). Immanuel Kant (1724–1804) Metaphysics: 4. Kant's Transcendental Idealism. The Internet Encyclopedia of Philosophy Retrieved 9 April 2011.
Merriam-Webster Dictionary the measured or measurable period during which an action, process, or condition exists or continues: duration; a non-spatial continuum which is measured in terms of events that succeed one another from past through present to future.
Munoz witz (2005) Knowing Oxford University press.p.35.ISBNO-19-516737-6-
Night prayer https://www.islamweb.net/en/article/153002/
Official Baseball Rules,(2011) Edition (2011)
Oxford Dictionaries (2011) Time, Oxford University Press. Retrieved 18
Oxford Dictionary Time (2011) "The indefinite continued progress of existence and events in the past, present, and future regarded as a whole".
Prayer Salah https://en.wikipedia.org/wiki/Salah
R. A. Alpher, H. Bethe, and G. Gamo (1948) the Origin of Chemical Elements" Physical Review 73 (7): 803–804. Bibcode: 1948PhRv...73.803A doi:10.1103/PhysRev.73.803
Retrograde motion phenomenon https://en.m.wikipedia.org
Rust Eric Charles (1981) Religion Revelation and Reason Mercer University Press. P 60 ISBN 9780865540583 Retrieved 2015-08-20.
Rust, Eric Charles (1981) Religion Revelation and Reason Mercer University Press P 60 ISBN 9780865540583
Sean M Carroll (2009). From Eternity to Here: The Quest for the Ultimate Theory of Time Dutton ISBN 978-0-525-95133-9
Simon & Schuster, (1996).Newton did for time what the Greek geometers did for space, idealized it into an exactly measurable dimension." About Time: Einstein's Unfinished Revolution, Paul Davies, p. 31. ISBN 978-0684818221
speed of light in the Holy Quran Moh'd Dudah.www.nooran.org
St. Augustine, Confessions, Simon & Brown, 2012, ISBN 978-1613823262.
Sura Al-Mudathther P 1851Verses 33 & 34
Sura Anan or Cattle Verse.No.1.p.56

Sura Anbia Verse 30 P156
Sura Araf Verse 54 P70
Sura Assajda Verse 4 P 205
Sura At-Takwir P 1907 Verses 17 & 18
Sura AZ-Zumar P 1393 Verse 5
Sura Fatir Verse No.13
Sura Ha Mim Verse 9, 10, 11, 12. P 240
Sura Ha Mim Verses 10 11 12 P 240
Sura Hadid Verse No4.P278
Sura Hadid Verse No.6
Sura Hajj Verse No.61
Sura Hajj.Verse.No.65
Sura Luqman Verse No.29
Sura Maarej Verse 4 P 2 96
Sura Saba Verse No2.P211
Sura Sajda Verse 5 P 205
Sura Takwir Verse 1 p 310
Sura Ya-Sin P1326 Verse 37
Surat Bani Isra-il P 778 Verse 12
Sura-Tauba Verse 36 P 87
Time https://en.wikipedia.org/wiki/Time.
Webster's New World College Dictionary 2010 Retrieved 9 April 2011

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