

## Exploration

# Time as a Dimension of Consciousness

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### Abstract

Time flows like a natural phenomenon. The speed of time can be marked by time marker as Speed of light. The speed of time is influenced by relative speed of observer, gravity and dark energy. Dark energy is an offshoot of dimension of consciousness. The methodology used is inference driven from various observations, experiences and reference of ancient texts. There are various characteristic speeds of time and at each level there is a different realm. The conclusion which have been drawn are:

- (a) The speed of time is not constant (and therefore also the speed of light);
- (b) The time travel is possible through but not in backward direction;
- (c) Space-Time is an offshoot of consciousness; and
- (d) The age of our part of universe is 216 Billion Years. This is from the beginning of formation of matter in Milky Way galaxy.

**Keywords:** Consciousness, dimension, space, time, Sangri La, Shmbhala, energy, God.

Like energy and matter, time is the domain of consciousness. As brought out earlier, Vishnu is the sequence of events. Time is most important factor in the creation and further actions in universe. Time travel has caught the fascination many authors and film makers. Time travel is mentioned in ancient scriptures. Vishnu Puran reflects light on functions and role of Vishnu as Kaalroop (Kaal means time). In Vishnu Purana [1], Rishi Parashar says "The trinity of Brahma, Vishnu and Mahesh is also known as the creator, the preserver and the destroyer. All of them save the devotees. All of them have equal importance. Still, preserver who fosters and protects all the living beings is far more significant. Kaalroop of Vishnu (eternal, unending form of the Lord) is manifested. Lord Vishnu is beyond all the bonding of life like birth, growth, intelligence, senses, decay and death. Purush is the first appearance of Lord Vishnu. Prakriti is the manifestation of His action while Kaalroop is His supreme appearance.

In the beginning, all these elements were present in the great ball or egg, which came into existence because of the inspiration of the Lord. As this ball increased in size, it formed the base as Prakriti in which, Lord Vishnu Himself entered as Hiranyagarbh. When the universe comes into existence, Lord Vishnu fosters it. The first product of Pradhána sensible to divine according to the Sánkhyá and Pauránic doctrines, the principle called Mahat. The principle of Mahat is the root design code of universe.

What could sustain Matter and Consciousness whilst separate, or renew their combination so as to renovate creation? It is answered, Time, which is when everything else is not; and which, at

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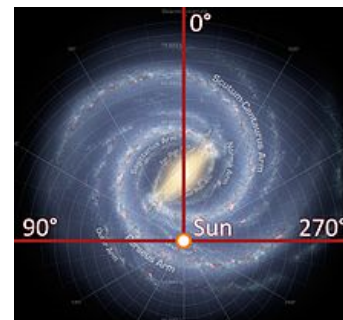
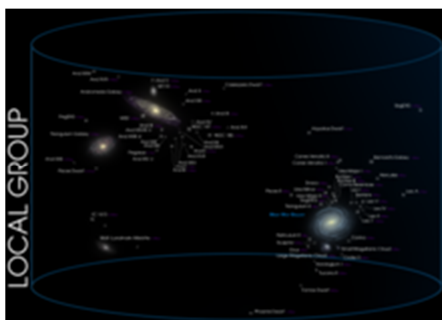
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the end of a certain interval, unites Matter and Consciousness (Pradhána and Purusha) and produces creation. Conceptions of this kind are evidently comprised in the Orphic triad, or the ancient notion of the cooperation of three such principles in creation; as Phanes or Eros, which is the Hindu spirit or Purusha; matter or Pradhána; and Chronos, or Kála, time.

In the center of universe time is zero or Mahashunya. Time signified only with change (of creation of initial vibration). The time is signified there is breath of Vishnu- As he breaths out the creation and as he breaths in as destruction. It is notional and just for understanding the cycle of creation and destructions and to highlight the non permanent nature of our material universe. The next important step comes in light is creation of Brahma by Vishnu for formatting and structuring of expanding universe. The theories also suggest that apart from the main universe, the galaxies in smaller clusters of universe also keep undergoing transformations, Black holes keep growing bigger and bigger after compressing more stars and when all the mass goes in, at a critical moment the burst open creating matter again (like what has been described in Big Bang theory). It is said that Brahma for each such event is a different Brahma.

Taking this notion farther, it makes sense as the clusters of stars in many galaxies are close by and then there are vast open spaces. It may also signify that time in a galaxy will vary a little as per the relative speed of stellar systems but it would be at appreciable different speed in a different galaxy. It is therefore important that to keep track of time in various galaxies, a time marker is transmitted from the center of creation for synchronizing time. If the speed of time is different in far off galaxies the one may also ponder that whether it made difference to formation of waves and particles in different fashion and to gravity. If the formation of waves and particles are affected then we will have completed different type of waves originating from those galaxies. If time acts in formation of biological material, the there will be different types of compounds and life forms in such galaxies.

It is also reasonable to believe that if Brahma is assigned to each such creation whether it is just galaxy or bigger than galaxy, the purpose would be same or similar. Therefore, we must safely assume that life is there in other parts of universe. Science is based on reason which is the [2] capacity of consciously making sense of things, establishing and verifying facts, applying logic, and adapting or justifying practices, institutions, and beliefs based on new or existing information. As far as the limited perception goes then it appears that the entire purpose of creation could be to develop and purify consciousness and use the same for further development. We will examine the dimension of time with respect to center of our galaxy.

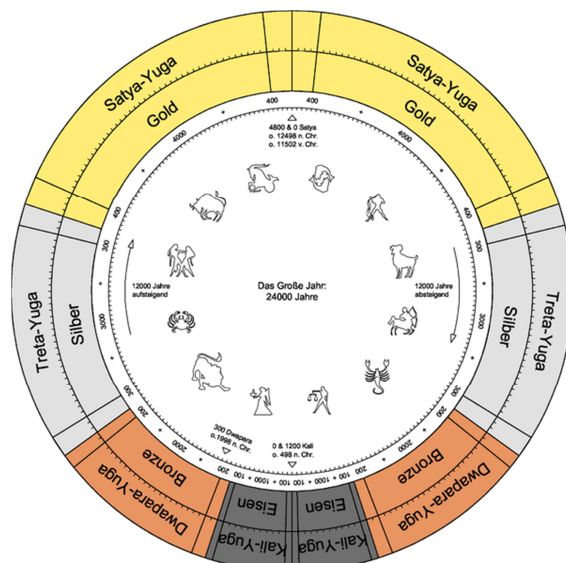


The Milky Way [3] and the Andromeda Galaxy are a binary system of giant spiral galaxies belonging to a group of 50 closely bound galaxies known as the Local Group, surrounded by a Local Void, itself being part of the Virgo Supercluster.

The Sun [3] is located near the inner rim of the Orion Arm, within the Local Fluff of the Local Bubble, and in the Gould Belt, at a distance of  $26.4 \pm 1.0$  kly ( $8.09 \pm 0.31$  kpc) from the Galactic Center. The Sun is currently 5–30 parsecs from the central plane of the Galactic disk. The distance between the local arm and the next arm out, the Perseus Arm, is about 2,000 parsecs. The Galactic Center is marked by an intense radio source named Sagittarius A\* which is super massive Black hole. Scientists also believe that core of this super massive black hole may be made of dark energy/ dark matter.

The center of Galaxy is the seat of Brahma (Vishnu Nabhi). Brahmá is said to be born: a familiar phrase, to signify his manifestation; and, as the peculiar measure of his presence, a hundred of his years is said to constitute his life. This period is also called Param, and the half of it, Parárdham. At present, 50 years of Brahma have elapsed [4]. The last Kalpa at the end of the 50th year is called Padma Kalpa. We are currently in the first 'day' of the 51st year. This Brahma's day, Kalpa is named as Shveta-Varaha Kalpa. Within this Day, six Manvantaras have already elapsed and this is the seventh Manvantara, named as – Vaivasvatha Manvantara (or Sraddhadeva Manvantara). Within the Vaivasvatha Manvantara, 28 Mahayugas (4 Yugas together is a Mahayuga) have elapsed. Manvantara[8] is the astronomical time within a Kalpa (aeon -a day of Brahma) and each day of Brahma is divided into 14 manvantara periods, each one lasting 71 yuga cycles. Preceding the first and following each manvantara period is a juncture (sandhya). Typically, each manvantara period ends with a partial devastation.

According to Sri Yukteswar Giri which he mentioned in his book *The Holy Science* (Kaivalya Darshnam), the ascending phase of the Kali Yuga began in September 499 CE. Since September 1699, we have been in the ascending phase of the Dwapara Yuga. The Yuga Cycle is depicted as below Image credits [6]



We have, in the first place, a computation of the years of the gods in the four ages [7], The period that precedes a Yuga is called a Sandhyá, and the period that follows a Yuga, termed the Sandhyánsa, is of similar duration. The interval between the Sandhyá and the Sandhyánsa is the Yuga, denominated as Krita (Satya), Tretá, Dwápara, and Kali, constitute a great age, or aggregate of four ages: a thousand such aggregates are a day of Brahmá, and fourteen Manus reign within that term. Here is the division of time which they measure.....

Yuga	Period	Time (Solar Years)
Satya	Main Yuga	4000
	Sandhyá	400
	Sandhyánsa	400
	Sub Total	4800
Treta	Main Yuga	3000
	Sandhyá	300
	Sandhyánsa	300
	Sub Total	3600
Dwapa	Main Yuga	2000
	Sandhyá	200
	Sandhyánsa	200
	Sub Total	2400
Kali	Main Yuga	1000
	Sandhyá	100
	Sandhyánsa	100
	Sub Total	1200
<b>Grand Total</b>		<b>12000 Solar Years</b>

The Calculation of age of Brahma (at the end of 499 CE)

<i>One Day of Brahma</i>	12000	1000	12000000	
<i>One year of Brahma</i>	12000000	360	4320000000	
50 Years of Brahma	4320000000	50	$2.16 \times 10^{11}$	216 Billion Years
6 Manvantaras	857,142.8571	6	5142857.143	14 Manvantra in a day of Brahma
28 Mahayugas	12000	28	336000	Mahayuga = 12000
			$2.16005 \times 10^{11}$	216 Billion Years

The ages of individual stars [3] in the Milky Way can be estimated by measuring the abundance of long-lived radioactive elements such as thorium-232 and uranium-238, then comparing the results to estimates of their original abundance, a technique called nucleocosmochronology. These yield values of about  $12.5 \pm 3$  billion years for CS 31082-001[172] and  $13.8 \pm 4$  billion years for BD +17° 3248. The gap in the scientific observation and scriptures is roughly 200

Billion Years. However, we must observe that **this period is calculated from the formation of heavier radioactive elements such as thorium-232 and uranium-238 which were probably the last ones to form.** The procedure and duration for formation of the elements have not been taken in to account. *(Or if we could reconcile the scripture where day of Bramha is 1000 Mahayugas to 100 Mahayugas the above calculations match to a great extent, however, this is just a conjecture and further research will be able to throw more light over this).*

Among the Pitras (forefathers) 1 day of pitras = 1 Solar month and the Lifespan of the pitras is 100 years of pitras (3,000 Solar years). Among the Devas, one human year is equal to one day in the life of Devtas.

The life span of any Deva spans 12000 Deva Years. However, life of Brahma, life of Pitras and life of humans all amount to nearly 100 Years of respective years, so the life of Devas may also be 100 years, then it would be  $100 \times 12 \times 30 = 360000$  human Years or approx 3 Mahayugas. *Interestingly, humans are considered luckier among all as they are able to rotate faster and have a greater and faster chance to emancipate themselves from cycles of birth and death then as compared to Devas.*

### Significance of Yuga Theory

Each of these periods of 12,000 years brings a complete change, both externally in the material world, and internally in the intellectual or electric world, and is called one of the Daiva Yugas [5]. Thus, in a period of 24,000 years, the sun completes one characteristic revolution starting from a position when Virgo is opposite Pisces.

After 12,000 years, when the sun goes to the place in its orbit which takes place when the Autumnal Equinox is on the first point of Libra), dharma, the mental virtue, comes to such a reduced state that man cannot grasp anything beyond the gross material creation. Again, in the same manner, when the sun in its course of revolution begins to advance toward the place the mental virtue, begins to develop; this growth is gradually completed in another 12,000 years. The Autumnal Equinox is now falling in Virgo; the opposite point, the Vernal Equinox, is perforce now falling in Pisces. Western metaphysicians, who consider the Vernal Equinox to have chief significance, therefore say the world is now in the "Piscean Age." The Equinoxes have a retrograde movement in the constellations; hence, when the Equinoxes leave Pisces-Virgo, they will enter Aquarius-Leo. According to Swami Sri Yukteswarji's theory, the world entered the Pisces-Virgo Age in A.D. 499, and will enter the Aquarius-Leo Age two thousand years later, in A.D. 2499.

The movements of the sunspots indicate that the sun rotates once every 27 days at its equator, but only once in 31 days at its poles. It takes the Solar System about 240 million years to complete one orbit of the Milky Way. So the Sun is thought to have completed 18–20 orbits during its lifetime and 1/1250 of a revolution since the origin of humans. Another event which takes place every 26000 years is precession of Earth's axis. At present, Earth's pole stars are Polaris (Alpha Ursae Minoris)[9], a magnitude 2 star aligned approximately with its northern axis, and a pre-eminent star in celestial navigation, and Polaris Australis (Sigma Octantis), a much dimmer star.

A couple thousand years ago, Kochab and Pherkad were twin northern pole stars, though neither was as close to the pole as Polaris is now. The precession of the equinoxes takes about 25,770 years to complete a cycle. Precession will next point the north celestial pole at stars in the northern constellation Cepheus. The pole will drift to space equidistant between Polaris and Gamma Cephei ("Errai") by 3000 AD, with Errai reaching its closest alignment with the northern celestial pole around 4200 AD.

### Reference of Time Travel

Our instinct is to regard time as eternal, absolute and immutable. In our normal thinking, nothing can disturb its lapse. As per relativity, time is variable. It may even have a shape when we see it interconnected or woven with space. In Stephen Hawking's expression the three dimensions of space are interconnected with time in a curious dimension known as space-time.

Significance of information about variable speeds of time can give us hint about the probable location of various Lokas (Dev Loka, Pitar Loka, Brahma Loka etc). This difference in length of time has been known to ancient Rishis. The reference to time travel exists in ancient scriptures; this has been in the direction of time and never been in the reverse direction. Peter J Miele also mentions this in his book *Aliens and the Multi-Paradox of Reality*.

There have been many tales in India and elsewhere that indicate presence of different speeds of time at earth and in space. The tale of princess Revathi [10] is one of the many. Kakudmi was a descendant of the Sun Dynasty (Suryavansha). The story of King Kakudmi and his daughter Revati in ancient times is one of these. King Kakudmi's daughter Revati was so beautiful and so accomplished that when she reached a marriageable age, Kakudmi, thinking no one upon earth was worthy of her, went to Brahma, to seek his advice about a suitable husband for his daughter.

When they reached Brahma Loka, Brahma was listening to a musical performance by the Gandharvas, so they waited patiently until the performance was finished. Then, Kakudmi bowed humbly, made his request and presented his shortlist of candidates. Brahma explained to him that time runs differently in various Lokas and during the short time they had waited in Brahma-loka to see him, 27 chaturyugas (27x4) 108 yugas had passed on earth. Brahma said to Kakudmi that the perspective grooms you had shortlisted are now gone for long. You cannot even hear about their names. You must therefore bestow your daughter upon some other husband, for you are now alone, and your friends, your ministers, servants, wives, kinsmen, armies, and treasures, have long since been swept away by the hand of time."

King Kakudmi was astonished on hearing this news. However, Brahma comforted him, and added that Vishnu, the preserver, was currently incarnate on earth in the forms of Krishna and his brother Balarama, he recommended to be a worthy husband for Revati. Kakudmi and Revati then returned to earth, which they regarded as having left only just a short while ago. They were shocked by the changes that had taken place. Not only had the landscape and environment changed, but over the intervening 27 chaturyugas, in the cycles of human spiritual and cultural evolution, mankind was at a lower level of development than in their own time (see *Ages of Man*). The *Bhagavata Purana* describes that they found the race of men had become "dwindled in stature, reduced in vigour, and enfeebled in intellect."

Daughter and father found Balarama and proposed the marriage, which was accepted. Since Revati came from different time behind him, she was taller than Balarama.

Ezekiel [11], also spelled Ezechiel, Hebrew Yehezqel, (flourished 6th century BC), prophet-priest of ancient Israel and the subject and in part the author of an Old Testament book that bears his name. Many years had passed on earth when Ezekiel returned to earth.

Relativity means that space and time are not absolute, but relative to both the observer and to the observed, and the faster one moves the more pronounced is the effect. The theory of relativity explains how the time dilation takes place when the moving observer nears the speed of light. In 1905, Albert Einstein postulated that the speed of light  $c$  with respect to any inertial frame is a constant and is independent of the motion of the light source. Time is relative to the observer's frame of reference --- it depends on the observer's motion and strength of gravity. For instance, one could argue that time here on earth runs faster (due to lesser gravity) than in space because gravity slows the passage of time.

The seat of Brahma is in the central black hole (the Milky Way galaxy has a supermassive black hole at its center, 26,000 light-years from the Solar System, in a region called Sagittarius A). Emma Osborne [12], an astrophysicist at the University of Southampton, told an audience at New Scientist Live: "Anything mass will stretch space-time. And the heavier something is, or the more mass it has, the more it will stretch space-time. "If you were to stand just outside the event horizon of Sagittarius A\*, and you stood there for one minute, 700 years would pass because time passes so much slower in the gravitational field there than it does on Earth." Sagittarius A\* has a radius of 22 million kilometers and a mass of more than four million times that of the Sun. It has the ability to completely stretch out space-time.

Nearly a century ago, was during a total solar eclipse (the Sun, you may note, is pretty bright, making it hard to see nearby stars unless it's eclipsed by the Moon) and was correctly hailed as the first experimental confirmation of Einstein's Theory of Relativity. The effect is known as gravitational lensing, and the amount of bending is one of the predictions of Albert Einstein's general theory of relativity. (Classical physics also predicts the bending of light, but only half of that predicted by general relativity.

**However if the light bends (laterally) there is also a likelihood that some effect also takes place longitudinally. If this is taken in to account the speed of light wouldn't be a universal constant. The speed of light would be different in different galaxies** depending on its relative motion across the space and affect of gravity of black holes. The speed of light can be used as a characteristic speed for a measure of stretched space-time due to the relative speed, gravity and dark matter.

There are the universal pheromones our scientists have observed in space. As per Ethan Siegel [17] all the galaxies in the Universe beyond a certain distance appear to recede from us at speeds faster than light. Even if we emitted a photon today, at the speed of light, it will never reach any galaxies beyond that specific distance. It means any events that occur today in those galaxies will

not ever be observable by us. However, it's not because the galaxies themselves move faster than light, but rather because the fabric of space itself is expanding. {18} It was revealed by NASA's Hubble telescope had spotted thousands of objects travelling over five times the speed of light in a distant galaxy.

Therefore the speed of light is not a barrier in other galaxies. The fact points out that speed of light is a characteristic speed in our space time environment and even this speed can change and there are objects (waves) with the higher speed in other space time environments. Each space time environment is essentially characterized by their relative speeds. As there are as many worlds as the interpretation of the one physical world, there would be as many universes depending on relative motion of the observer. The Gods living in different part of space time fabric have different view and interpretation of the world.

Another connotation in the variable speed of time would be in formation of matter. If there is one principle of Mahat (principle of initial vibration), ideally the formation of quarks, elementary particles would be the similar in every galaxy despite the variability of time. However, the nature matter in the black hole is indeed different due to different space time fabric.

### **Time Differentiation on Earth**

As the universe is known as Brhmand (expanding sphere), time is an essential measure in creation. The universe may appear infinite to us like ocean appears infinite to a fish, Swami Yuktेश्वar Giri in his description of the divine to his pupil Swami Paramhans Yogananda, described the material universe way smaller than the divine universe (sphere of the dimension of consciousness). Relativity is perplexing, yet it would be easier to reconcile the mind assuming different space-time fabric in far galaxies and in black holes. However, one may wonder about the tales of time differentiation (speed of time or  $\Delta T$ ) on earth itself. There are few places in Himalayas known as Shangri-La, Shambhala, Gyanganj, Kalapa, Mahvtar Babaji's Cave in Indian Himalayas where time lapses at a different speed.

The Russian-born traveler Nicholas Roerich [14] records in his Shambhala (1930) several visits to Tibet. In 1928 he asked a lama whether Shambhala was a real place. The lama answered: "It is the mighty heavenly domain. It has nothing to do with our earth . . ." The question still remains: Did this hidden paradise actually exist or was its reality wholly spiritual?

During the late 19th century, Theosophical Society co-founder Helena Blavatsky who was in contact with a Great White Lodge of Himalayan Adepts, mentioned Shambhala in several places.

King Manjuśrīkīrti [15] is said to have been born in 159 BC and ruled over a kingdom of 300,510 followers of the Mlechha religion, some of whom worshipped the Sun. He is said to have expelled 20,000 people from his domain who clung to 'Surya Samadhi' (solar worship) rather than convert to Kalachakra (Wheel of Time) Buddhism. After realizing these were the wisest and best of his people and how much he was in need of them, he later asked them to return, and some did. Those who did not return are said to have set up the city of Shambhala.



Manjuśrīkīrti initiated the preaching of the Kalachakra teachings in order to try to convert those who returned and all still under his rule. In 59 BC he abdicated his throne to his son, Puṇḍārika.

Writers have further emphasized and elaborated on the concept of a hidden land inhabited by a hidden mystic brotherhood whose members labor for the good of humanity. Alice A. Bailey claims Shamballa is an extra-dimensional or spiritual reality on the etheric plane, a spiritual centre where the governing deity of Earth, Sanat Kumara, dwells as the highest Avatar of the Planetary Logos of Earth, and is said to be an expression of the Will of God.

The name Shangri La was made popular by the British writer James Hilton, who published his novel *Lost Horizon* in 1933. In the book, four Englishmen crash over the Kunlun Mountains (to the west of Tibet) while being evacuated from India. They find themselves in a peaceful and isolated kingdom of Shangri-La, ruled by monks, where people live for hundreds of years almost without aging.

I came across a book on Gyanganja which also tells about the higher level of science, dwelling of sages and some celestial beings and lesser speed of time. The people living there are hundreds of year old. The age of Mahavtar Babaji who is my Param Guru and also the source of my knowledge. He was born on 30 November 203 AD and he is still alive. There are a number of Rishis who are Chinjeevis (Extremely long lives). These are Ashwathama -- son of teacher Drona, Bali-- the benevolent Asur king, Vyasa -- the sage who wrote the Mahabharat epic, Hanuman -- Son of Wind God Vayu, Vibhishana -- the brother of Rawana, Kripacharya -- the Brahmin of Hastinapur who taught the Pandavas and the Kauravas, Parashurama, Agastya (also the Guru of Mahavtar Babaji). My Guruji Pilot Babaji who was practicing his sadhna in Himalyas also told me he had met Kripacharya, Ashwasthama and Mahvtar Babaji. He has also stayed in the wonderful place like Shangri La which is known as Sidhbhumi or Siddhashram.

This goes to indicate that time is connected to the dimension of consciousness. The speed of time is influenced by dark energy and dark energy itself being offshoot of dimension of consciousness.

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