

## Mind Matter Interaction

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*This is the diary that I have kept on my ideas regarding mind/matter interaction. Ideas from this diary were distilled in a book form. Thus the book ["Nature of Human Thought"](#) has been published and is available from [NARI](#).*

**August 31, 1977**

The interaction of wave and matter is a very interesting phenomenon. Since antiquity man has tried to explain it by different theories backed up by new evidence, but in all these endeavors he has assumed a role of an observer. We therefore make a statement which is at best heuristically arrived and that is, that the very act of observation itself brings in some interaction with the existing phenomenon being observed. This particular thing has been said quite a number of times before but here we include the human thought itself. Thus any action that is being observed in the realm of physics and especially quantum physics has to take into account the human thought itself. The nature of human thought, though still remains indeterminate.

The human thought itself is of a very low energy level, comparable to the gravitational energy and as gravitational energy is all pervading so is the human thought. Such, all pervading nature of such a weak force as the human thought can only be brought about by thinking that there is a very active interaction between the human thought and matter. That is the matter itself "helps" the thought to propagate. The same may be true of gravitational force and thus the human thought and gravitational force may have the same basic nature. We may further extend this analogy to some of the forces of nucleus and consider the attraction of quarks may have been brought about by the interaction of human thought and gravitational energy.

We may approach the determination of human thought by considering its cause, since the effects are still not very well documented. The cause is the working of the brain. Naturally any effect will be dependent upon the cause and so any idea that the human thought is abstract and devoid of any physical nature is at best naive. The way the human brain works, the way the neurons are fired, the way the signal is generated itself may be able to tell us the macroscopic nature of the thought. Naturally we may have to design some special types of equipment such that they will be able to observe such a weak force. Or it may very well happen that since thought will itself interact with the observation we come to a paradox that how can we think about the thought itself when the act of thinking itself is thought! Then we may be able to develop a hypothesis that we may never be able to observe the nuclear or matter wave interaction in its entirety because we lose our entity as an observer and instead become participator.

**December 19, 1978**

I am getting more and more convinced that there is some relationship between human thought and gravity. The chain of thought leading to this conclusion is as follows:

- (a) Gravity forces become powerful when large amount of mass is present. The thought process is also a manifestation of larger molecular radiation that takes place in the brain.

- (b) Gravity permeates everything, so does human (living) thought.
- (c) Some of the effects of planets on human thought can only be explained if there is some interaction between the two.
- (d) The prediction of earthquake by living beings can be explained by this interaction much more easily. Before the earthquake large-scale movement of earth masses take place thereby changing the gravitational field which is sensed by animals. No change in E-M fields can do that. This phenomenon was discovered in 1993 (Nature article)!
- (e) If the big bang theory is correct then at the beginning only gravity existed. Thus that initial force has to have some interaction with all other forces, because these forces came out of that initial force only.

### February 17, 1979

Some more thoughts on interaction of mind and matter. It appears (if our reasoning that human thought and gravity have the same characteristics is correct) that in the process of human thinking there are innumerable circuits made before the final thought is projected. Also at one point in time the brain is capable of generating one thought which is again the sum of various circuits. Now during the formation of this circuit certain energy is expended and what comes out is the radiation which is the human thought. Since the source - certain large molecules in the brain - have known physical characteristics and follow the existing natural laws it appears the effect - the thought - should also follow those laws. Based upon this thinking it can be said that the human thought is a very higher order radiation i.e. it can be derived from the Fourier series summation of the individual wave outputs of firing neurons.

The gravity also appears to have the same characteristics. It can be said that gravitational forces start manifesting themselves after large number of molecules have been assembled. This large assembly of atoms or molecules then starts putting out the individual radiation and the  $n^{\text{th}}$  order harmonic of these radiation finally form a coherent wave packet which we call gravity waves. Thus we are unable to detect them on the earth because they are weak and we have been looking at the wrong portion of the spectrum.

Some of the fundamental dimension less quantities of nature like

$$(m_p/m_e) = 1.6724 \times 10^{-24}g / 9.1086 \times 10^{-28}g = 1836 \text{ and the ratio of } [1/e^2/hc]=137$$

( I have to check this) may tell us something about the harmonics to be taken when we can detect these waves. Thus the 1836<sup>th</sup> harmonic may give us gravitational wave while 137 may be a thought wave (?).

Once this is established (that thought waves and gravity waves have the same characteristics) then it may be possible to do the following things.

1. The evolution of life can be explained.
2. The evolution of this universe itself can be explained because to start with we had these nonlinear waves and how they triggered the formation of the big bang.
3. It may also explain the concept of levitation because when we have interaction of these fields then levitation can take place.

4. It may explain the transmigration of soul. Because the soul will then be nothing else but a combination of these different memories or some sort of a hologram at these  $n^{\text{th}}$  harmonics.

But before some of the above are attempted one still has to understand the nature of the radiation itself. How are these harmonics created in the first place? It can be because of the oscillations of the individual electrons, atoms etc. which even in complex chemical structure are oscillating individually. These oscillations then give rise to this weak force. We may even remove the dichotomy between the particles and wave nature of the light by looking at the wave itself as the final answer. For example one wavelength may be the packet of the photon or else everything is nothing else but small wave packets.

### February 26, 1979

The interaction of “gravity” and the “cluster of molecules” raises an interesting question on evolution. It may be possible to think that because of certain gravitational effect on this earth these molecules evolved in a particular manner. Again we should not overlook the effect of magnetic field which in turn can be an effect of the “gravitational” field.

### September 5, 1979

It appears that long molecules become “living systems” when they interact with gravity. It therefore appears that the length of the molecule should be such so as to act like an antenna for gravity. Thus gravity seems to provide the driving force for replication and other evolutionary processes. It will therefore be interesting to see what is the critical length at which the replication of molecules takes place. Then this type and size of molecules should be used for studying gravity.

The whole basis of Raja Yoga appears to be tuning the human body with the gravitational energy. The power of gravity is then used by mind to reach the cosmic consciousness. Because there is no doubt in my mind, that once the true nature of gravity is understood mankind will be on the threshold of quantum jump in its evolution of mind.

### December 2, 1979

It is quite possible that the uncertainty principle is a function of gravity. In the present frame of reference the uncertainty exists. Thus the act of observation itself produces the gravitational field thereby producing the uncertainty. Thus there is no uncertainty except we are trying to understand the system from inside which is different than understanding it from outside. It may be useful to do these experiments on other gravitational fields.

Since the gravity existed at the beginning and will always exist (if the big bang theory is correct) then all other forces must be  $n^{\text{th}}$  order manifestation of it. Hence all the forces should be able to be traced to gravity. In that case the time becomes very important because for gravity the time does not exist whereas for all other forces it exists. It may be quite possible that all other forces are increasing order of time.

$$\therefore G \sim t^0$$

and E.M; Nu, Weak Int. Strong Int etc. are  $\sim t^n$  (what is the value of n ?)

If the above is correct then it may be interesting to know how fast a body “feels” the presence of another body.

### December 8, 1979

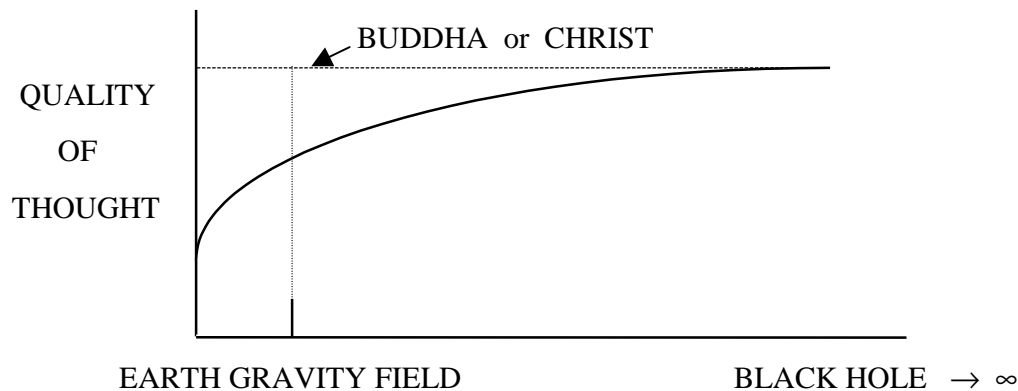
It appears that the gravitational force has no time embedded in it and thus it is only space dependent. It existed before the so-called “big bang”. It exists today and will exist, without going through any transformation. Dirac has formulated a theory in which  $G \sim 1/t$ , but that may be manifestation of gravitation in some other form.

If gravity is timeless then interesting possibilities arise as to how should the space-time analysis be converted to only space and under what conditions does the space-time converge to space only. With present knowledge that can only happen when one is traveling at the speed of light.

It is also intriguing that among all the forces known today gravity seems to act only in one direction and that results in attraction of bodies. Naturally the logical question arises, how does this attraction take place? It may be possible that the way gravity is felt is by interacting with the “environment”. The environment at present is background radiation of  $3.2^0$  K. How was it felt in the early universe? It may be possible that what we are looking at is the later gravity as compared to earlier gravity but then this is a contradiction to our earlier statement.

### April 7, 1991

It seems the ultimate purpose of this huge brain is to make it possible for the memory (I, atman, soul etc.) to leave the gravity of this earth and go and get absorbed in the infinite gravity field. As long as the memory gets attached to a particular gravity field it will go through the whole cycle of birth and death till that gravity field is overcome.



1. Is it possible that the present brain is developed enough to bring the transition from low evolution to the complete potential (Buddha?) after remaining in the earth's field ?
2. An interesting corollary is that one should not become too famous because then the total will- power of people (remembrance) will keep the memory tied up to the earth's gravitational field.

It seems that as the gravitational field becomes stronger and stronger the brain will have to develop memory to overcome that field and finally the ultimately reality is the black hole.

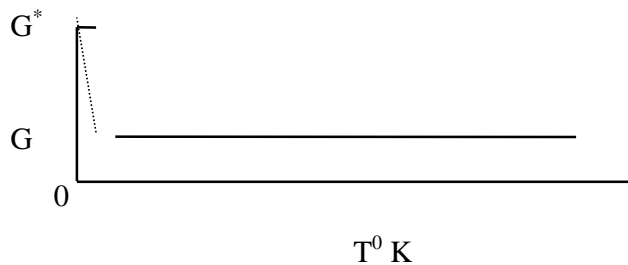
The question then can be asked is why we have to go through all this cycles of birth and death if we all came from the same all-powerful gravitational field. One of the possible explanations is that it is so ! The cycle was always there and will be there forever. When all the living creatures reach the level of evolution for ultimate gravity then the big collapse will start and the big bang - big collapse cycle will continue.

Since the ultimate aim is to reach the final gravity it is quite possible that the time to reach that is also fixed. Hence no matter what we do that time frame will have to be followed. Thus all our actions may follow the predetermined course or in other words, the world is a very deterministic place with everything fixed ! This thinking is nothing new and has been preached by the Indian philosophy.

Another interesting aspect is materialization of forms which have been dead for thousand of years. For e.g. Buddha appearing to Vivekanand. If Buddha is the ultimate reality then his form is part and parcel of the whole background radiation, which manifests when the brain is able to tune in the correct gravitational field.

### Random thoughts on the nature of gravity

1. It is not a static space-time continuum but a vibrating field.
2. Anti-gravity or resonance is possible only with a vibrating field.
3. Gravity field is caused by the movement of atoms, molecules etc.
4. It is based on radiation of large molecules.
5. It is possible that at different resonance of the gravity field different particles emerge!
6. Human thought and gravity have similar nature.
7. It is also a possibility that there may be super gravity i.e. at  $T = 0^0$  K



$G^*$  = Super gravity constant

$G$  = Existing gravitational constant

8. The space time continuum is to be thought of having vibrations superimposed on it. Hence at the 1st harmonic is  $G$ . At absolute rest (0 harmonic it is  $G^*$ ). At other harmonics other particles come out.
9. Is it possible that black hole may have  $T \sim 10^{-10} \text{ } ^0\text{K}$  and thus may have gravity constant of  $G^*$ . This might also explain that the missing mass may be nothing else but black holes with greater  $G$  ( $G^*$ ). This again points to the fact that  $G$  (gravitational constant) known to us is the outcome of movement.

### July 28, 1991

1. There are only 2 forces in nature. Gravitational and others. And ultimately there will be only 1 i.e. Gravitational. At the present level of understanding it is assumed that all other forms of fields have constant velocity  $\underline{C}$ . There is no velocity for gravity. Is it possible  $V_g \rightarrow \infty$
2. Thus it can be thought of like a quantum jump of particles form velocity  $C$  to  $\infty$ .

### February 19, 1992

Just as according to the Patanjali Yoga Darshan the real knowledge or light comes when the cessation of all turbulence in brain ends, so is the super gravity also a cessation of all movements.

Is it possible as  $T \rightarrow 0^0 \text{ K}$ ,  $G^*$  manifests itself? With cessation of all movement Heisenberg's uncertainty principle will also vanish.

It is also possible that the background radiation ( $3^0 \text{ K}$ ) may be nothing else but gravitational after-effects of the ever pervading force (or  $G^*$ ).

One can also conjecture that brain (in living form) may sense the change in gravity field rather than the gravity itself. Only when it is destroyed (Nirvikalp samadhi) then it becomes one with gravity.

### February 22, 1992

It is possible that trees and pyramids are antennas for extra terrestrial radiation. Naturally the trees have evolved according to other forces and hence they may be tuned differently.

However a quick calculation will show the following :

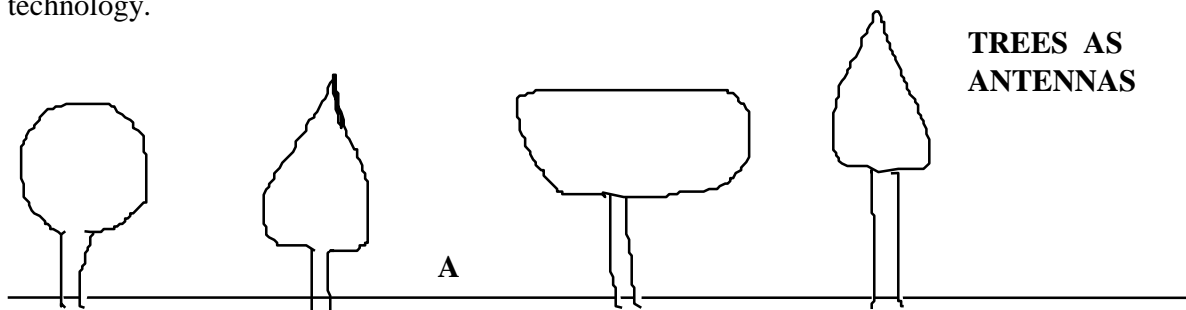
For resonance; antenna length =  $\lambda/4$

Trees ~ 30 - 40 ft or 10 -15 meters.

Hence  $\lambda$  - 40 - 60 meters. This is in the realm of radio frequencies and the preferred mode of inter galactic communication.

An interesting experiment/theory will be to find the radiation in the space between antennas and how the radiation affects it.

What is the nature of radiation in space **A** ? Also the different shapes of trees produce different antenna effect. It is possible that pyramids were basically antennas and the ancient Egyptians knew about this technology.



However more work needs to be done in understanding antenna theory. The  $\lambda/4$  system may or may not be the most appropriate. Heuristically it does appear that the trees act like antennas both for terrestrial and extraterrestrial radio waves.

If the antenna theory of trees is proven then the spacing of trees may have to be based on it besides sunlight! Or an optimum spacing may be found such that  $X_{opt} = F$  (sunlight, height (biomass); communication)

**February 24, 1992**

Carrying the above thought process one can then think of human height as also an antenna capable of interacting with the cosmic radiation (gravity). If we take resonance length as  $\lambda/4$ .

$$\lambda/4 \sim 1.7 \text{ m (avg.)} \quad \Rightarrow \quad \lambda = 6.8 \text{ or } 7 \text{ m. wavelength.}$$

Weins displacement law states

$$\lambda_{\max} T = C = 0.28978 \text{ (Cm}^0 \text{ K)} \\ 700 \text{ cm} \times T \text{ (}^0\text{K)} = 0.28978 ; \quad \Rightarrow T = 4 \times 10^{-4} \text{ }^0\text{K}$$

Which is close to  $0^0\text{K}$ ! However this is only for B.B. radiation.

Also the T.V. waves are between 1-10 m and is it possible for humans to intercept the T.V. signal?

**December 22, 1992**

The black hole from outside will be a “white hole” from inside. Since no light can go out of this hole, once one is inside the event horizon he will be bathed in nothing else but light. Is getting inside the “white hole” the ultimate reality of human thought?

May be that is God! This also fits into Indian historical and mythological picture. Vivekananda once experienced that everything is flying into infinity or it may be going into the “black hole”. Similarly when Krishna appeared to Arjun in his full form Arjun saw everything flying into Krishna. Thus it comes back to our old theme of God is Gravity and Gravity is God.

What exactly may be happening if one gets into the black hole. The observer may find:

1. There is tremendous light.
2. Because of singularity hardly any motion takes place hence the  $T \sim 0^0 \text{ k}$ .
3. Since everything is possibly traveling with the speed of light hence time stands still. Thus inside the black hole no thought, or impressions remain but everything is converted into gravity - the originator of everything.

This again may be a corollary of our original thinking that thought is a function of large number of vibrating surfaces. We have also said that thought is related to gravity. Is it then possible that even large bodies with vibrating systems may have a thought signature!

It is also possible that ultimately the universe starts collapsing when the critical mass of thought is reached (?)

Or is it that collapse takes place as a part of self-organization of the whole universal expansion process?

**December 22, 1992**

Thoughts regarding homeopathic medicine :

Is it possible that with subsequent dilution, the water structure is transformed so that some sort of “memory” of the original medicine remains. Since we still do not yet fully understand the water structure hence it is possible that this simplest of material may have the capability of forming infinite variations of structure which ultimately helps the brain tackle the disease. The above idea is based on the premise that geometric space itself is memory.

A similar thing might be taking place with acoustics. Is it possible to transform the water clusters with acoustics. The drinking of water chanting “mantras” may have some meaning! The only limitation will be that the volume of water has to be small for acoustic waves to effect transformation inside the body of water. This limitation is obviously removed in homeopathy where the parent molecule does not exist at 30 potency. It will be interesting to study the combined effect of acoustics, E.M. fields and parent molecule on the homeopathy medicine.

**February 16, 1993**

Alpha waves, which people emit when in deep meditation or relaxing, have frequencies of 8-12 Hz.

Thus the  $\lambda$  of these waves can be calculated as

$$C = \lambda v \text{ where } v = \text{frequency, Hz}$$

$$\text{or, } 3 \times 10^{10} \text{ Cm} = \lambda \times v$$

$$\lambda = 3.75 \times 10^9 \text{ cm} \quad \text{at 8Hz}$$

$$\lambda = 2.5 \times 10^9 \text{ cm} \quad \text{at 12 Hz}$$

$$\lambda/4 = 9375 \text{ Km} \quad \text{at 8 Hz}$$

$$\lambda/4 = 6250 \text{ Km} \quad \text{at 12 Hz}$$

$\lambda/4 = 6400 \times 10 \times 100 \text{ cm. (for earth)}$ $\Rightarrow v = 11.7 \text{ Hz} \sim 12 \text{ Hz}$ Hence $v_{\text{res}} = 12 \text{ Hz}$ for earth
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Earth's radius is  $\sim 6400 \text{ Km.} = R$  Is  $\lambda/4 = R$  ? for spherical body resonance

If yes then it is one more proof that human thought and gravity have similar characteristics.

Is 8 -12 Hz frequency a manifestation of earth's magnetic field?

**March 5, 1993**

Is it possible that every particle is nothing else but a “wavelet” ? Particles and solids are manifestations of large number of these wavelets.

**March 11, 1993**

An interesting thing I read in New Scientist. It says that at  $T \sim 0^0 \text{ K}$  a photon has the ability to shift atoms in the atom lattice. How does a low energy photon simply get so much energy to move atoms! It is like a human thought moving Mt. Everest!



**March 15, 1993**

If memory is geometric space then how is the gravitational field distorted to develop a continuous shape? One possibility is that this "memory" is nothing else but Prigogine's dissipative structure which is formed as a part of self-organization of non-equilibrium processes. If it is so then what is the energy flow through this structure which maintains this memory? This reasoning may not be very correct because it requires a flow of continuous energy. Hence a possible explanation is that once this gravitational field hologram is formed it remains so till it is changed again by thought process.

**March 22, 1993**

There is a tendency for some people to think that every person has a fate. However I think a more probable explanation is that every person is a receiver of knowledge and vibrations. Hence a prepared mind can take up the opportunities readily while an unprepared mind will not even see it. Thus "prepared mind" is an outcome of "Karma". Thus the events "look" for prepared minds and quite a number of people are tested. Only the most prepared mind ultimately develops pathways where the flow of knowledge becomes an avalanche.

**April 8, 1993**

If geometric space is memory then by principle of equivalence it is gravity because to an observer blindfolded but with an ability to feel, the distortion in space will be felt by gravity field.

If a long rigid chain or rod of 350,000 km is pulled by 1 cm then the signal is passed with greater speed than that of light ! Is it possible that the gravity hologram also passes this signal in higher dimensional space with infinite velocity ?

**June 22, 1993**

Why do human beings or other animals dream? There are various theories but one that appeals is that of Francis Crick. He says it is to get rid of memory. This also makes sense from the point of view of transmigration of soul. If only the basics go with the reincarnation then all the baggage of memory has to be off-loaded someplace. Dreams appear to be a mechanism of doing so. They may remove the unconscious memory more readily than any other mechanism.

So how do we remember the dreams. These dreams sometimes are in our conscious brain which then can remove them as lost memory.

There are dreams (remembered) which have lasting impressions. They may be the ones which come out of the deep unconsciousness.

Is it also possible that during dreaming we may be in a semi-meditation state where we are connected or can get signals from the surrounding life field?

**September 13, 1993**

1. It is quite possible that the prepared mind may tune into the knowledge space as earth hurtles through the universe. Thus when we say that suddenly somebody had a brain wave it may be nothing but tuning

into the knowledge space that comes in contact with earth. The earth-sun system takes 226 million years to circle the Milky Way. The Milky Way itself circles other galaxies!

2. The above also explains that the knowledge is time dependent and not very much people dependent. Thus at a particular moment there could have been another Einstein or Newton Etc. This might also explain the contacts with advanced civilizations in intergalactic space.
3. Since space is memory and vice versa is it possible that human memory for transmigration may have fixed dimensions? It is quite possible that the field may be dependent on the Karma & hence the dimensions may not be same. "Good" people may have bigger field? Or is the intensity "field" dependent? This may be the reason why extra baggage needs to be shed both by dreaming and otherwise. What then characterizes the "main" baggage? In the evolution of human memory the ultimate reality is getting rid of main baggage of thoughts which ultimately leaves a core which is a black hole!
4. In the evolution of human beings on this planet, mobility is a driving force. Hence ultimate in mobility will be intergalactic travel. Energywise it will be very difficult to undertake this journey with a physical body. Hence out-of-body experience may be an easier route.
5. Our whole universe is made of atoms and molecules. These atoms and molecules have no concept of time. So how does the concept of time enter into large-scale structures like human beings and others. Is time a figment of human consciousness?

### **September 17, 1993**

If time only comes when consciousness exists then isn't time life? Life and time are then inseparable. Since the ultimate reality is timeless and omniscient, is it lifeless? There has to be a better answer than this.

### **September 21, 1993**

Is it possible to think that voices were given to human beings to sing? Spoken word for language and communication came as a by-product!

Human singing therefore affects the heart directly. Hence singing in a proper format can have a much bigger impact on the human development than hitherto thought of.

Thus songs or singing style should focus on the following :

1. Style for 70-80% of the people, who should be exposed to "tamas music". This is the basic rhythm. This helps in focusing and putting these people in trance. They can then be molded to be better people.
2. For the rest 20-30% of the people the music should be a mixture of Indian and Western classical or even new voice forms (Buddhists and Yogic chants) which create vibrations and produce great upliftment of mood and soul!
3. MTV format can be used to beam this music all over the world. This will require a very creative teamwork of people from different musical backgrounds.
4. A really soul stirring lecture can be started by music.

### **October 25, 1993**

It is really interesting to read Shri Ramakrishna's life and his experiences. He used to say the following:

1. That large number of universes come out of triangle.

2. All the world is made of Akash and Pran.

In Ramanujams' life during his interaction with Dr. Mahalonobis in U.K. he said that there are large number of 0's and  $\infty$ 's and each  $0_j \times \infty_j \rightarrow \text{World}_j$  (from "The Man who knew Infinity"). This also agrees with what Ramakrishna saw!

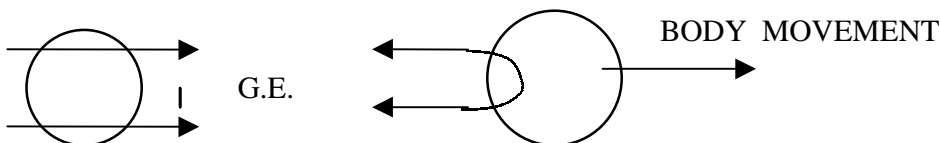
According to Sankhya philosophers before the big bang all the matter was one with 3 processes Satvic, Rajas and Tamas in equilibrium. Once this equilibrium was destroyed the universe was formed. Also different universes come from these three forces. Could this be the luminous triangle of Ramakrishna? Are these forces different dimensional space?

### November 5, 1993

Is it possible by chaotic theory to get a signature of thought in a space-time path or continuum? Thus all the neurons firing may ultimately produce a pattern called chaotic attractor (or thought). From Scientific American (July 1993).

### November 6, 1993

1. Is it possible that all the motions of atoms (electrons, protons, neutrons etc.) could be because of flow of gravitational energy through them? At  $T = 0^0$  K when there is no thermal motion, will the gravitational energy still flow? Thus it is like dissipative structure. Since Universal gravitational energy flows though them all across universe hence they are same everywhere.
2. Is it possible then, to create conditions inside atoms to stop the flow of this energy. Then we might suddenly have antigravity system!



3. Since the gravitational energy flows through the atoms hence they have no basis of time. Is time then a measure of change? Something that does not change has no time. Is it possible then to follow gravitational trajectories and predict events?
4. Karmic processes are very much evolutionary in nature. From lowest amoebae one evolves into human beings. Similarly the memory also evolves from tiny animal spaces into human memory space. Is it then possible for human memory to be born again as an animal memory? The only possibility is that the memory transformation takes place retrograde manner. However transformation into spirits is possible.

However Vivekanand says that it is possible to be born as animals after human existence and the Tamas memory will only be used during the animal existence whereas the other memories will remain dormant! An interesting concept.

### November 17, 1993

According to F.B. Juenaman (R & D Magazine July 1993 pg. 25) physicists have developed a theory regarding the temperature of black hole. It states :

$$T_{b,h} \propto 1/M_{b,h} \quad ; \quad T_{b,h} = \text{Temperature of black hole} \quad ; \quad M_{b,h} = \text{Mass of black holes}$$

$$\therefore T_{b,h} \rightarrow 0^0 \text{ K as } M_{b,h} \rightarrow \infty$$

Obviously at the origin of the big bang there was nothing else but gravity hence at  $T \rightarrow 0^0 \text{ K}$  super gravity manifests itself as developed by my theory. Is it then possible that just like Ramanujams' worlds.

$$0^0 \text{ K } \times \infty_{\text{mass}} \rightarrow \text{Worlds}$$

Thus all massive black holes will provide different worlds/universes!

### February 2, 1994

1. With time and intensity of thought a memory space is formed. If this space is "charged" with thought then a "temple" can be formed. That maybe the basis of lot of holy places where generations of people through hundreds of years have worshipped. Thus the memory space and person's faith form a closed system which may feed each other for beneficial purposes.

It will be very challenging to develop such "temples" for betterment of India where people not only come to take away but to give so that the memory space gets charged even more.

2. In the Indian concept of "Maya" there are opposites which always are in equilibrium. Only God is one while everything has duality of nature. Isn't gravity then single entity and hence God!

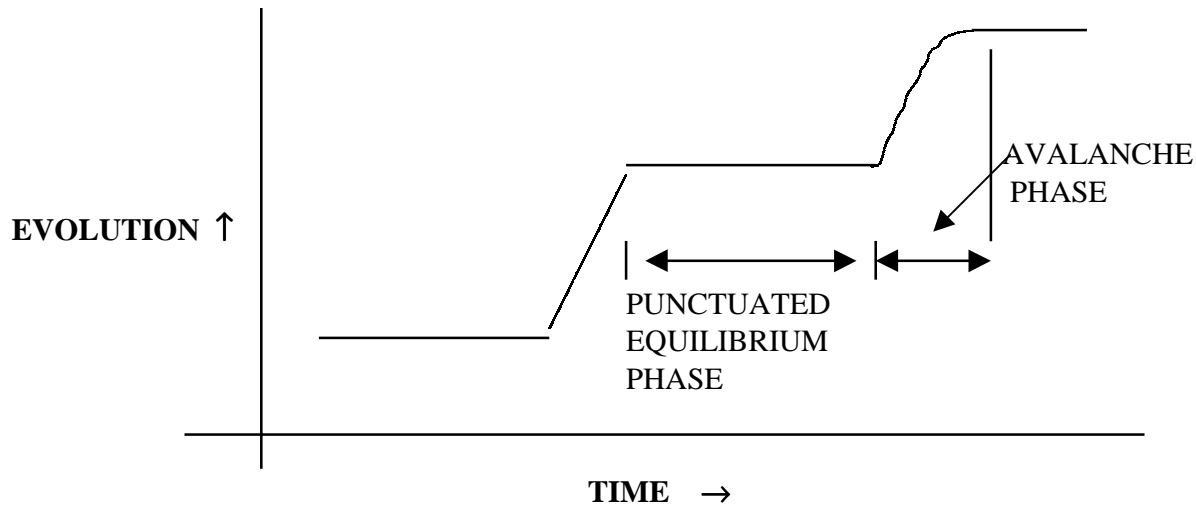
### February 10, 1994

In the chaos theory different starting points can produce the strange attractor. Instead of having many runs, what happens when large number of starting points are chosen and few runs take place. That may be a basis for human thought. Large number of neurons firing may help to produce an attractor. The "shape" of the attractor is the thought "signature".

### March 21, 1994

An interesting article came in New Scientist (12 March, 1994) regarding evolution. Scientist call it "punctuated equilibrium". It has the following attributes:

- a) Catastrophes are a part of an evolutionary process. They are not externally mediated.
- b) They are all energy modulated and the quality and quantity of energy produce criticality by which catastrophe occurs.
- c) Systems that are most highly evolved are most prone to extinction ! (strange conclusion)
- d) Systems that are least fit are most susceptible to evolutionary change.
- e) Simple systems have long life.
- f) The evolutionary process takes place by catastrophes like avalanches of snow and pile of sand.



### March 21,1994

According to old Indian philosophy human body is made up of 16 elements and 19 pranas ! 16 elements are very close to what modern science has found out. They are Na, K, Fe, H, N, O, C, P, Ca, S, Mg, I, Co, Zn, Cl, Cu, NO, Boron. (18)

The 19 pranas could be 19 dimensional space which could be memory etc. ! Is 'N' then 19 dimensional?

### April 1, 1994

Yesterday watched a fascinating program on the “Orion mystery” on B.B.C. The authors claim that the pyramid’s location is same as 3 stars in Orion galaxy (?) and that the Nile’s flow trajectory is akin to the Milky Way position in the sky.

That the ancient Egyptians spent a huge amount of money, labour and time in erecting huge monuments to mimic Orion stars arrangement means only one thing : that they knew about mind/matter interaction and that they knew that star’s gravitational pull has an effect on the “memory”. Even their chambers inside pyramids are aligned to stars.

In Mahabharat Bhishma Pitamah was on the arrow bed for 6 months before he left his body. At the time of his leaving the body, the sun was closest to earth (winter solstice) and hence it increases the belief that Indians knew about the effect of star’s gravitational fields on human “memory”. Vivekananda has also said similar thing.

### April 1,1994

It is quite possible that Bhakti Yoga maybe the highest form of Yoga. Once the knowledge (Jnana Yoga) comes via Karma Yoga or Raja Yoga then ultimate reality can be reached by personally realizing the truth and that comes by Bhakti Yoga or total abandonment to gravitational forces. Bhakti Yoga may provide the fastest way of removing the resistance of will (or I).

Also in the ultimate stage, the poetry writing or composing and singing (highest manifestations of man) come into full force. It is also possible that raising of Kundalini is nothing else but alignment of gravitational forces with life force or vice-versa.

The future of societies is to create large number of Buddhas and Christs. Knowledge will become the supreme commodity of value. This is just like old Indian system where Krishna got the war won for Pandavas because of his knowledge.

### April 1, 1994

How is thought transmitted ? The following steps might take place.

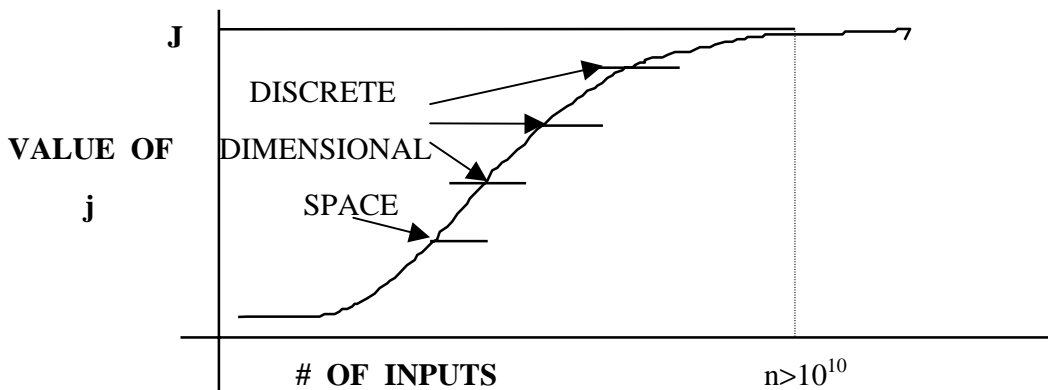
- Development of chaotic attractor - the “thought-signature”. If the quality of thought is highest it may be ‘n’ dimensional system. Mundane thoughts may be of lower dimensions.
- Lower dimensions thoughts have lossy mechanism because they cannot resonate with 'n' dimensional space.
- Highest quality of thought - ‘n’ dimensional system will interact with the “rigid” space and the transfer of thought may be instantaneous ! The space is rigid for ‘n’ dimensional thought signature. Hence transmission is a non-lossy process.

It is the same as our super G where the velocity is  $\infty$

### April 5, 1994

It will be an interesting exercise to think about the following:

- Given n number of inputs. How many dimensional space **j** will it produce for the strange attractor?



Or if  $n \rightarrow \infty$  will  $j$  approach a fixed number  $J$ ?

### May 2, 1994

Continuing on the theme of space is memory. We still have not defined space. The dimensions are at present unknown. It is a rigid space at that dimension. An analogy of whipped egg batter can be given. At higher levels of air mixing the batter becomes stiff !

The chaotic theory may eventually tell us what dimension that “living” space is. In this space  $V \rightarrow \infty$  and it is very rigid.

Is it possible then to say that a personality of a person is his unique space (in other words, his “other” body; memory or “atman”). The 10-100 billion neurons firing may alter this “Signature”. But with time this “Signature” either hardens or remains static. Is the concept of time defined at this dimension ? The main thing is how to define this space (how many dimensions ?) and its structure.

It is also possible to think that any living being may have the “body” signature in this space (?). Is it possible then that these body signatures are ghosts ? Gets complicated !

### May 11, 1994

With my present thinking on the subject it is possible that space travel may be a possibility. It goes like this:

- \* Human body can be disintegrated and then enters the higher dimension space.
- \* This higher dimension space being “rigid” the “travel” is instantaneous.
- \* Reassembly of body to lower dimensions at the other point.

The main thing is how can one disintegrate the body and how it is reassembled ? Looks like science fiction but may ultimately understand the laws.

### May 15, 1994

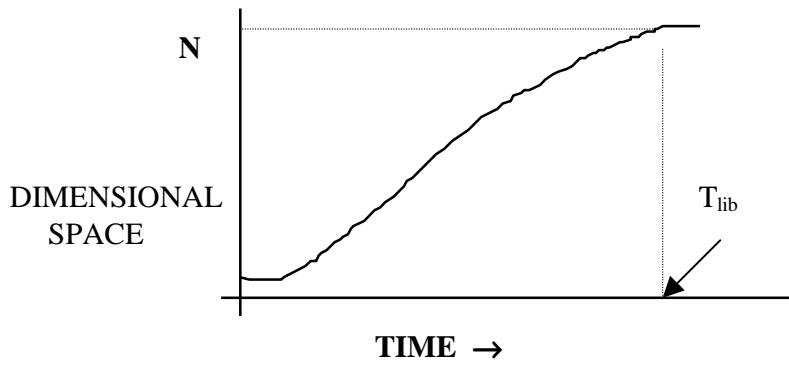
1. Just as in turbulence of fluid, eddies are forming and breaking, so it is possible that in the life force turbulence, births take place. Similar laws should be applicable.
2. One should really look at chaos theory for large no. of operators of the order  $\sim 10^{10}$ . These operators may produce the N dimensional strange attractor which we call life space.
3. The physics of this space may be different from the 4 dimensional space-time system. However Poincare map of the N dimensional space may be useful. The laws at this map will be existing space-time laws. Is it possible then to develop N dimensional strange attractor such that its Poincare map is 4 dimensional space-time system?

### June 20, 1994

Is it possible that the N dimensional space (developed because of motion of large no. of particles) may be the inertia of the body ? Is it then that inertia  $\rightarrow 0$  as  $T \rightarrow 0^0$  K ?

### August 8, 1994

Is it possible that the thinking or gravitational interacting molecule forms the first signature of living organism and that this signature then goes for higher and higher dimensional system via rebirths till it reaches the N dimension and then gets liberated. Similar to Darwinian evolution.



This curve corresponds to universal life cycle systems. What is  $T_{lib}$  (time of liberation) ?

The life signature below  $N$  dimensions provides the shield which does not allow the liberation or the gravitational energy to flow through the system. Is this cause of ego ? When the system reaches  $N$  then suddenly the super structure (rigid) is achieved and the shield removed. The shield is called Maya in Indian philosophy.

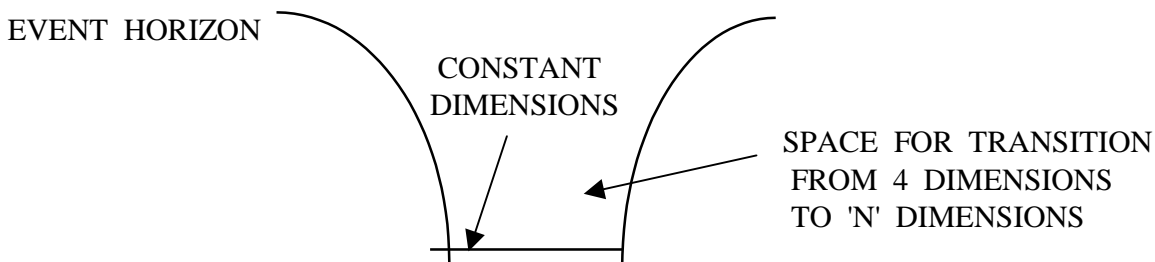
**December 10, 1994**

Is it possible that when we think of only one thought and for a considerable long time with tremendous concentration then all 100 billion neurons are acting in a laser type way? If we assume that firing of each neuron produces a tiny flash of light then this firing in unison may produce the characteristic luminous light that all Yogi's have seen in deep samadhi.

Still the nature of space distortion caused by firing of 100 billion neurons at same time remains to be solved. The ultimate concentration called Samayama in Patanjali Yoga Darshan appears to be what has been described above. Thus the deep concentration with all neurons firing together may come nearer to the gravity field.

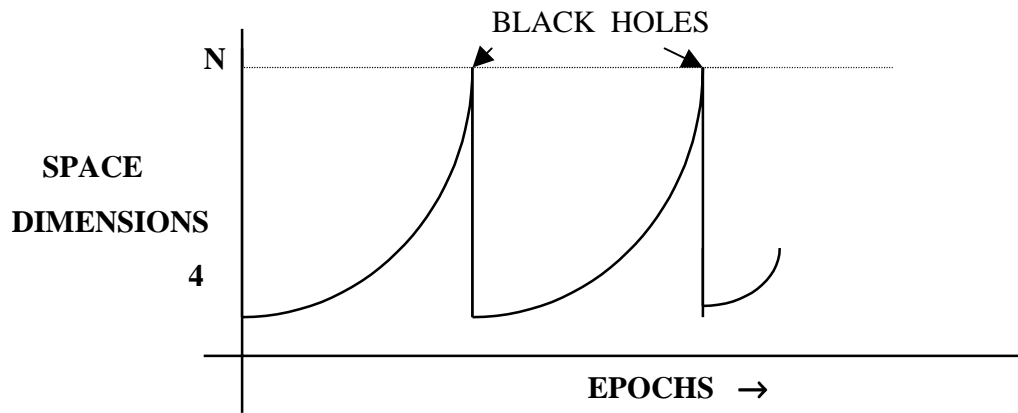
**December 16, 1994**

Is it possible that in the black hole, because of supergravity, the space becomes rigid and hence there is a fixed dimensions of black hole ?



The moment  $N$  dimensional space is reached it is possible that it may start its own cycle of universe formation. Is it possible that black holes are the engines which keep the 'N' dimensional space as a "dissipative structure"





### February 3, 1995

Why are all living beings afraid of death ? The possible reasons could be:

1. The experience is very traumatic. Sometimes it is accompanied by tremendous physical pain.
2. The living being “instinctively” does not know what will happen to its “memory”. Whether it will find a new body or will it be fixed in space for long time.
3. The process of learning or moving to higher level of consciousness is disturbed and delayed. Thus 20-30 years or even more can be lost in the process.
4. It loses its ability to change “memory”.

All these reasons come together to form a fear complex of death.

### April 18, 1995

It is possible that the memory of human beings superimposed on the “atman” may interact with gravity. When this memory is destroyed then the thing left is “ultimate reality” or super gravity.

Hence the human body is the highest thing attainable because it has the mechanism of changing the memory. No other system has the mechanism to do so. Even the so-called gods, fairies and other beings do not have mechanism to change the memory. They are fixed in space and can only remain as Prigogine's “dissipative structures”.

This also implies that for human body the “size” of atman is fixed. It may be coming out of infinite system but for it to manifest in human body it will have to have fixed dimensions What is it ?

### July 28, 1995

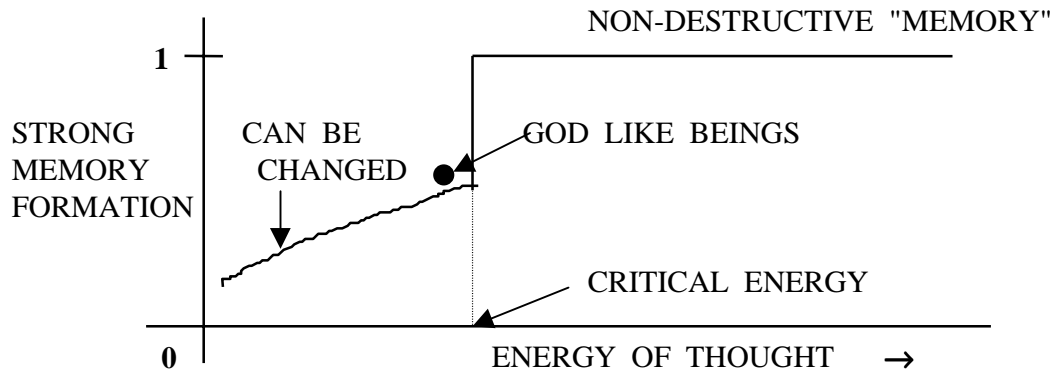
Is the inertia of any body because of rigidity of space caused by gravitational field ?

### August 3, 1995

Space becomes memory only when N-dimensional thought is produced. That is what gives the “rigidity” to space hence formation of memory. All those thoughts which produce structures consisting of less than N dimensional space are simply “dissipative” structures” and hence cannot remain fixed.

What then is the “real” memory. It is the same which is transferred during reincarnation. Hence intensity of focus is what produces the “real” memory. This is what has been preached in the Patanjali Yoga. Hence cessation of other disturbances of the brain is required so that energy could be devoted to think about a single thing with tremendous focus and also repeatedly. That is Patanjali's Samyam.

It seems that repeated strong focus on single thought helps in formation of “memory”. Is it therefore possible for the following to take place:



**Paradox :** Can brain form non-destructive memory ?

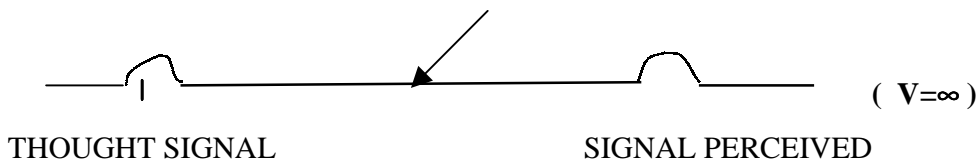
It is possible that brain itself has to be destroyed during formation of non-destructive memory (through Nirvikalpa Samadhi)

**August 7, 1995**

Propagation of thought (N dimensional)

It seems that the moment an ‘N’ dimensional thought is generated (lower dimensional thoughts are lossy in nature and hence get transmitted by regular laws of EM) it produces a structural form in the ‘N’ dimensional rigid space. Since this space is rigid hence the signal is passed instantaneously ! Really weird. A 1997 paper shows that it is possible! The velocity of gravity is ~ 200 times that of light.

REPRESENTATION OF 'N' DIMENSIONAL RIGID SPACE



**August 10, 1995**

The emotional energy comes closest to focusing mind on a single thought. May be that is the reason why some have said that Bhakti yoga is the fastest and the highest form of Yoga. Is it also the reason that women may reach Nirvana faster than men ? Partly because of women's ability to have stronger emotional force as compared to men. Is it the reason that Kali is a woman ?

The spoken word then stirs up emotions which can be very powerful. Hence the effect of sound on human brain is the second order effect. It does not produce the thought signature directly but may affect the brain to produce a highly focused structure.

It is becoming clear that a single thought with the highest intensity will be 'N' dimensional. All other thoughts are lossy in nature. It is also possible that great amount of work is required before the brain gets the ability to focus and concentrate on single thought. Also energy is required to make all the neurons focus on a single object.

### August 12, 1995

We have been saying that the firing of 100 billion or  $10^{11}$  neurons together in a laser like fashion produces an 'N' dimensional space. Similarly there is an inherent "firing" of mass which produces the gravitational field or "M" dimensional space. We are not exactly sure of the relationship between M and N dimensional space. The "firing" of something in a mass may be its movement of particles, electrons etc. Motion of electrons and nucleus in atoms is a non-lossy process. Is it because it is already a part of "M" dimensional space ?

Some numbers on how much  $10^{11}$  particles of the smallest atom Hydrogen will weigh.

Mass of proton is  $1.67 \times 10^{-21}$  kg. Since mass of electron is  $9 \times 10^{-28}$  kg.

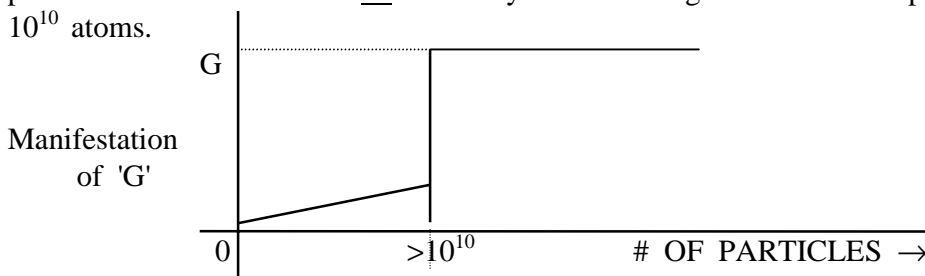
$m_p \gg m_e$ , hence mass of H atom is mass of protons.

$10^{11}$  H atoms mass will be  $1.67 \times 10^{-21} \times 10^{11}$  kg =  $1.67 \times 10^{-7}$  g.

There has been no measurement of gravitational coefficient, G with such small masses. 26<sup>th</sup> August 1999 issue of NATURE reports that even for atoms G is same and  $\Delta g/g \sim 3 \cdot 10^{-9}$  !

It will be instructive to see how G has been measured. The gravitational forces start manifesting with larger masses and that is where it is possible to measure 'G'.

Is it possible to say then, that gravitational forces or "M" dimensional space manifests itself when number of particles are of the order of  $10^{10}$ . It may be interesting to see if life in petridish starts when the unit has  $> 10^{10}$  atoms.



What gives rise to "G". Is it the motion of individual atoms ? What happens to 'G' when Bose matter is produced ?

**September 1, 1995**

Sometimes it seems that each individual under very focused conditions can touch N dimensional space. That can be termed as revelation or “vision”. The trick is to be able to go in and out of that space at will. That is “bhavaya samadhi”. This requires tremendous energy on the part of individual.

Calculations need to be done on the amount of energy required for focused thought.

Sometimes it is said that when somebody is trying to reach ‘N’ dimensional plane there are forces which do not allow him/her to reach it. I am not sure of that. I think those forces may also be trying to reach that space. However since they cannot reach it themselves hence they tag along the “great soul”. This increases the drag and if the force of forward movement is not strong enough then the goal is not reached.

**September 6, 1995**

Once the mind is able to make a connection with the ‘N’ dimensional space then because of its huge field the mind is “attracted”, to it and gets absorbed by it. Probably that may be the reason of “Maha Samadhi” and Yogi’s explanation of not being able to remain down in the body. In the absence of any other way to explain, the words used are up and down.

**September 22, 1995**

If the ‘N’ dimensional space is rigid then is it possible that it is the genesis of matter production ? In the Indian philosophy it is written that when the mind interacts with Akash it produces matter.

**September 25, 1995**

It seems that homeopathic medicines may work like Eigen functions for e.g.

$$F = C e^{nx}$$

$$dF/dx = Cn e^{nx} \quad \text{and} \quad d^n F/dx^n = C n^n e^{nx}$$

Thus at every dilution step the potency of the function increases. The trick is to find a proper function and to relate various properties of medicine to it. Is it the H bond that we are looking at ?

**September 25, 1995**

Is it possible that even in higher dimensions the body formation takes place as dissipative structures (D.S.) ? Or the coarse body is the D.S. in 3 D whereas in higher dimensions the “essence” of body is the D.S. and that these are related.

Is therefore D.S. in ‘N’ dimension >> D.S. in 3D. ?

Or in other words D.S. in 3D comes after D.S. is formed in ‘N’ dimension ? This may mean that the template of every form known to us already exists. Or is it interchangeable ? Seems quite complex and convoluted.

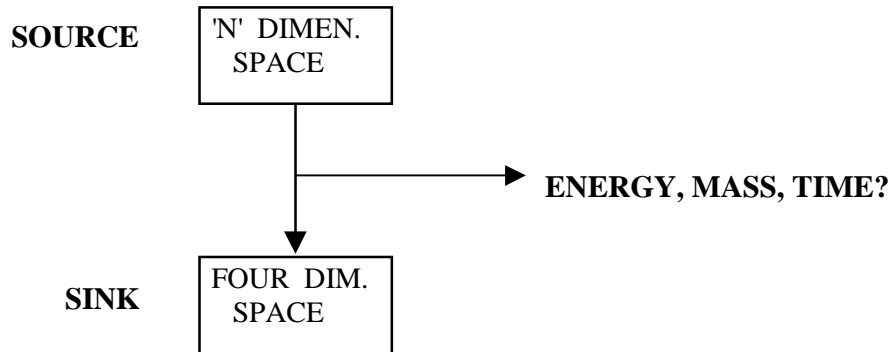
**September 27, 1995**

Is it possible that the spine acts as an antenna to the brain. It may explain the length of tail for animals. They require bigger antenna for ‘N’ dimensional (or closer to it) thought!

**October 2, 1995**

Thought Engine :

It is possible that when the 'N' dimensional space manifests itself as 4 dimensional space then it may produce energy like a thermodynamic engine ?



This is reverse of what may be happening in producing 'N' dimensional space. Large amount of energy is used in creating 'N' dimensional space and hence the reverse should also be true. What is the nature of this energy and how can it be harnessed ?

Is this then the “free” energy or Prana energy that Yogis talk about ?

**October 18, 1995**

What is the energy of firing a single neuron ? Let us call it  $E_n$ .

$\therefore$  Energy of 'N' dimensional thought  $\sim E_n \times 10^{11}$  ;  $E_n$  is still to be determined.

Obviously the mundane thoughts must be using less energy since the whole brain is not involved in generating them.

**November 28, 1995**

Recent evidence (NATURE Vol. 378, 23 Nov. 1995) has shown that even in 2M NaCl solution there is very high concentration of water near NaCl ions and is equivalent to almost 1400 atm. pressure! This then could explain that even under great dilution there are some number of ions left in solution and that for homeopathic medicine they show the “tunneling effect” in passing through the brain stem barrier. Thus when somebody said that water has memory, probably it is these ions which are still embedded in the structure.

**January 22, 1996**

Recent evidence (NATURE OR NEW SCIENTIST) has come that before earthquake there is an E-M wave of 6-13 Hz which comes from earth. If this E-M radiation can be detected by animals and human beings (alpha waves) then earthquake prediction becomes a breeze. This is what I had predicted in my previous writing. Is it true then, that any internal rumblings in the earth produces standing waves ?

**January 22, 1996**

Since space is memory hence it should contain knowledge. We should be able to cultivate the brain so that it can draw from this knowledge anytime. This is what great Yogi's do through their powers. Obviously the earth's gravitational field will limit the knowledge that we can tap in. However this barrier is broken when earth passes through knowledge space during its movement in our galaxy. Is that the reason why we are bound by our Karma ?

**January 22, 1996**

Almost all life threatening episodes for any living organism are followed by hair-raising episodes. Naturalists tell us that this is a remnant of primeval set up where every organization had to puff up to look big. I think the real reason is that at this critical juncture the life form tries to tune into the 'N' dimensional space and hairs act like antennas.

**January 27, 1996**

I think the ultimate aim of this 'N-1' dimensional space (also called memory, person's atman etc.) is to go on evolving which could mean traveling from one advanced civilization to other in the intergalactic space.

The whole basis of gods etc. then become beings either in physical form or otherwise who exist in different planets or in life fields.

At present level of our technological development we may travel to those evolved planets via the space memory route i.e. without bodies. Later on (may be after thousands of year hence) we may use advanced spaceships to go there.

Hence this planet is "seeded" from time to time by higher forms of life who help us in our evolution. This fits quite nicely in our scheme of things and is as follows:

1. The memory space depending on its quality can be of varying dimensions and hence depending upon the dimensions occupies different worlds.
2. The **Ultimate** is obviously the infinite background space. This is similar to what is written in Adi Shankracharya's Vivek Chudamani.
3. As the earth goes in the galactic space it encounters knowledge space and hence we can get the quantum jump in our development. This means that because of fixed speed and motion of earth our getting this knowledge is fixed and predestined!

**January 27, 1996**

By the principle of equivalence the following may be true.

1. Since tremendous amount of energy is required by this body to produce 'N' dimensional thought.

**Hence**

2. If by grace of god or guru the same quality thought comes to the individual then he will have tremendous upheavals in his body. Hence the body has to be prepared for the high quality thought. Apparently by producing high quality (dimension) thought the body gets prepared automatically. For the body to resonate with the 'N' dimensional thought it has to undergo some changes.

**February 12, 1996**

The whole process of life is like a chance. The force “infinite memory” gets into a body and then a sheath of new memory is formed called “Maya”, or simply memory and then the progression of evolution takes place. At the end of the cycle all the “sheath” gets modified and finally the original thought melts into infinite. It is like bubbles forming in the ocean. They start as small, coalesce together and become big and finally collapse and the restructuring starts again.

Hence the presently known Darwinian evolutionary theory is correct.

It is quite possible that finally when all “memory” gets into ‘N’ dimensional space then the universe closure takes place and the Universe starts contracting ? However till that time energy goes in the sink of memory sheaths which are less than ‘N’ dimensional. Is that the missing mass ?

**March 4, 1996**

When a person is in deep thought then the whole brain is active regarding that thought. It is possible that in such a state other memories get off-loaded since the whole brain is required for processing information. Is this the process of Yoga ? Thus Yoga helps directly to off-load all past memories (Karma) and the person gets liberated. Thus offloading of memories may be distracting and hence the need for concentration while doing Yoga so that focus remains on a single thought. It is quite possible that offloading is not chemical in nature but the production and destruction of neurons.

**July 19, 1996**

Is it possible that when the ‘N’ dimensional space is reached “time” dimension vanishes ? Thus only space remains and the past, present and future become irrelevant.

**August 23, 1996**

Is it possible that when one has fever then the brain is working actively to develop “S” dimensional thought to combat the illness. That is probably the healing brain. With increase in body temperature the brain becomes very active.

**September 18, 1996**

Though there is a lot of research going on how the brain “thinks” and this includes CAT scanning of active areas of brain, but the picture is still incomplete. Is it possible that for different things the brain gets stored information from different parts of the brain and then the whole brain processes it using some number of neurons thereby producing ‘X’ dimensional thought where ‘X’ < ‘N’. The areas of increased blood flow as seen on CAT scan must be areas of memory storage.

It may really be interesting to CAT scan the Yogi’s brain under deep meditation. Or may be the CAT scan may interfere in the meditation.?

**September 24, 1996**

Whatever eye detects is processed by the brain. Hence depending upon this processing we “ think ” that we have seen something. It is possible that when brain achieves the ability of ‘N’ dimensional thought then it may perceive much more than average. It is very possible that we do send in large volume of data to our brain (from all our sensory organs) but the ability to process all of it is not there.

Is it possible then that during dreams we may be processing that data?

It is also possible that "seeing" of Yogi's visions may be nothing else but the ability to process that data more effectively.

Hence in the evolution of world probably it is required to first have a big brain and then have lot of data for analysis (?)

Thus this may be the right time to help develop "N" dimensional thinking brain for the world.

### 24 September 1996

In the General theory of relativity Einstein's equations have the numbers as follows :

No. of dimensions	No. of Equations.
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3	3
4	20

General formula seems to be  $(n! - n)$ .

Is it possible then to translate each equation as the history of single neuron firing ? From that we can get the no. of dimensional space for all neurons firing.

Total no. of neurons in the brain ~ 10- 100 billion.

$10^{11} \sim (n! - n)$  or  $10^{11} \sim n!$   $\therefore n \sim 14$  or  $15$  ( $\sim 14.2$ )

and  $10^{10} \sim n!$   $\therefore n \sim 13$  or  $14$  ( $\sim 13.4$ )

Is "N" then 13 or 14 ?

It is also interesting to note that:

$(hc/Gm_e^2)^{1/4} \sim 1.5 \times 10^{11}$  or 150 billion  
- a dimensionless number.

### 24 September 1996

Some fundamental dimensionless numbers in nature are:

$m_p/m_e = M=1836$  and  $hc/e^2 = H=137$  (fine structure constant)

**M/H = 13.4 which is nearly exact to the dimensional space for  $10^{10}$  neurons firing! Is it a coincidence!**

Does this mean that in future if the brain advances then no. of neurons may increase and also n. Or is it that this is the final size and capacity ?

### September 30, 1996

If the above reasoning is correct then for the thought to interact with a physical 4 dimensional space (movement of objects, bending of spoons etc.) the number of neurons required will be only 20! which are very few. So it seems that the brain creates a signature such that it is manifested as 4 dimensional localized disturbance.

### 30 September 1996

Einstein's geometric space theory is very fascinating. The local space-time geometry tells the mass to move and vice versa. If we extend a similar analogy to human thought then maybe the focused "Yogic" thought bends the "N" dimensional space.



### December 2, 1996

It is quite possible that when the brain is thinking very deeply on a certain thought i.e. a very focused thought then probably a feeling of well being results. It is possible that in this process certain chemicals are released in the brain which gives a feeling of happiness. Thus the whole process of **Yoga, religion** etc. is to really have a deep thought so that one feels happiness. **This is really the essence of being human !** Present researches have shown that the brain in deep thought stimulates the pituitary gland which gives a feeling of well being.

### December 5, 1996

It is quite possible that in future we may evolve into green beings. This way we will reduce the amount of food intake because we can use solar energy to photosynthesize.

### January 11, 1997

Continuing on the theme of happiness. Deep thought on scientific discoveries etc. may be giving same satisfaction as Yoga. Getting goose pimples is possible both in Yoga and great discovery.

### April 1, 1997

It is possible that comets could be acting like "seeding" agent for souls to come to earth. Just like a particle can seed water out of vapour so comets might do a similar thing. This line of thought is highly conjectural.

### April 14, 1997

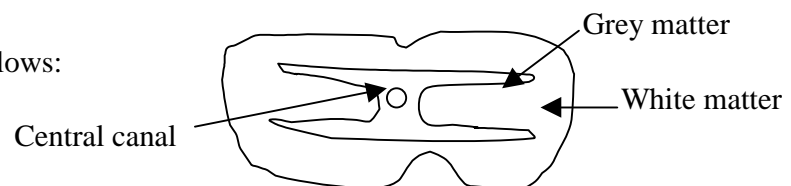
Telepathic or "seeing" the thoughts of other persons may be possible as follows :

- N-1 dimensional thought is produced and this forms some sort of hologram.
- This hologram is then "seen" by a Yogi who can at will produce these thoughts template and this template can interact with the hologram thereby effecting "seeing" process.

### April 29, 1997

From the accounts of Yogi's it seems that they have been able to create a mechanism by which the spinal cord acts as an antenna. The whole basis of Raja Yoga or Kundalini rising is a mechanism of making spinal cord as an antenna.

The cross section of spinal cord is as follows:



The nerve bundles in both grey and white matter are longitudinal. Also the central canal is filled with cerebrospinal fluid. According to Yogis claims the central canal is called Sushma and when Kundalini rises then it opens up various centers.

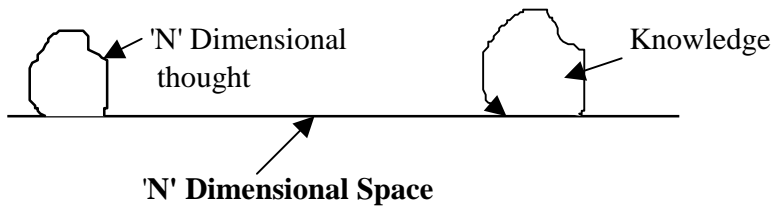
Also the number of nerves coming at different places on the spinal cord are 31 and are as follows : 8 near neck (cervical), 12 near heart ( thoracic), 5 near kidneys (lumbar)(?), 5 near testes( sacral) and 1 at the base

(coccygeal). Is it possible that because the max. number of nerves meet the spinal cord near the heart that one talks of matters of mind and heart !

An upright frame like that of human beings is fit for interacting with gravity with brain/spinal cord system acting like a giant antenna!

**May 9, 1997**

How does one perceive universal knowledge ? Is it possible that a template is developed by focus in the 'N' dimensional space ? This template then fits with the knowledge space (which already exists) and then the mind (because it is the originator of the initial template) perceives the knowledge. Since the 'N' dimensional space is rigid hence the perception is instantaneous .



The matching is like lock/key system of molecules.

The key questions are :

1. If we do not have any clue of some knowledge then can it be "thought off" ?
2. The quantum leap in knowledge can only take place when rudimentary template of the final "knowledge" exists. There are only certain ways that a mind (100 billion neurons entity) can think and hence the template is an obvious outcome. This points towards the evolutionary nature of knowledge.
3. Even the wildest dreams have some continuity and are based on some element of rudimentary template. Hence they are part of Universal 'reality' someplace. Thus something **cannot be thought off if it does not exist !**
4. The constant churning in the brain (deep thought) helps in making the 'N' dimensional space continuously better so that the final template fits perfectly. Once that fit is produced "Knowledge" drops into the lap.
5. The above is the basis of Samyam of Patanjali Yoga Darshan.
6. This line of reasoning comes from our original thought that knowledge and memory are space and vice-versa. This is "N" or some dimensional space and that everything has a template since we are talking of 'N' dimensional geometry.

Can future events be predicted based upon the above ? I think if the free will remains then one can predict future events in general "big picture" terms and not precisely. "Prediction" of events in a microscopic sense (or precisely) can only take place if we have the power to change them. We will then make them happen and hence can call these events "predictions". This is possible if we know the laws of nature of energy <=> matter exchange in terms of templates in higher dimensions.

Just like in computers the "virtual reality" is based upon existing templates hence it is possible for the mind to perceive "N" dimensional space and the templates. The "Universe" for the computer is its memory space whereas for human beings it is the UNIVERSE. The Yogi's "seeing" different things may be just virtual reality of already existing templates. This is energy wise much simpler to understand and see. Probably this

cultivation of "seeing" templates will produce a quantum jump in man's understanding of the "Mind of God" in the next few generations. Obviously this knowledge is also evolutionary.

### June 10,1997

It is quite possible that mountains may act like antennas. Is this the reason why great yogis and rishis went to the mountains? I do not think they went to the mountains for only clean ozone filled air.

Average height of mountains ~ 6000-7000m.

$\lambda/4 = 6000$  or  $7000$  ;  $\therefore \lambda = 24,000$  or  $28,000\text{m}$

and the frequency of radiation  $\nu = (3 \times 10^8 \text{ m/s}) / \lambda$  (Hz)

or  $\nu = 10.7$  to  $12.5$  kHz . This is in the radio frequency range.

### June 16,1997

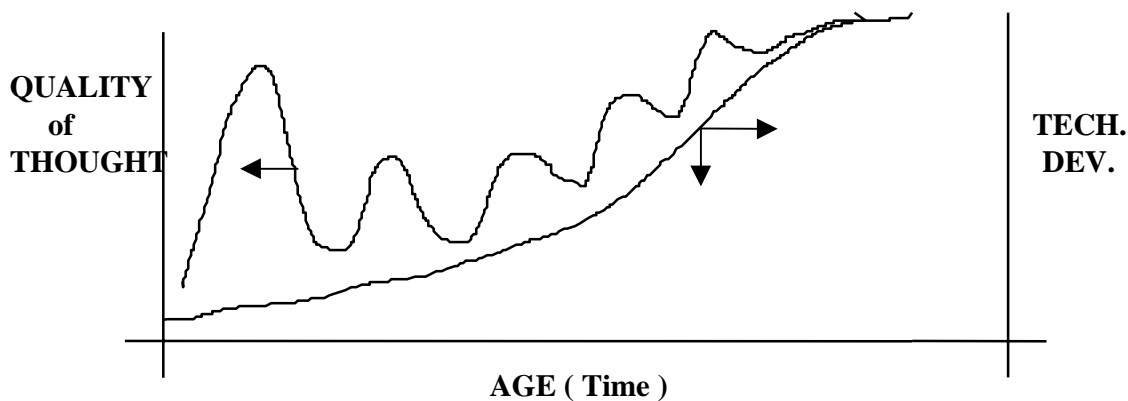
There is Hawking Paradox which states that information is lost once it goes in the **Black Hole**. Some scientists try to resolve this paradox by stating that black hole eventually evaporates and then this information is retrieved.

A better answer is based on our 'N' dimensional space model. In black hole the '4' dimensional information is converted into 'N' dimensional information. The engine for making it into higher dimension is "singularity" or gravity. This 'N' dimensional information can be converted back into the original '4' dimensional one and this process will release energy. **So the information is never lost.** Please refer to pg. 21 (October 2,1995 idea). Once this information goes in 'N' dimensional form it can be accessed via the "deep" thought route.

### July 10, 1997

The technological progress is very important. It frees the mind from mundane things and helps focus it on higher thoughts. It is quite possible that the technological progress and spiritual progress go hand in hand. Technology does help relieve physical suffering. Even in Patanjali Yoga darshan 30% of sutras are devoted to getting powers or technology!

Hence the graph may look like following :

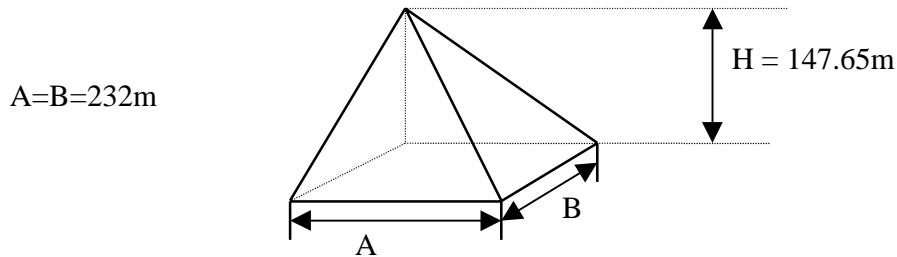


Peaks denote individual high quality thought events (Christ, Buddha etc.). Eventually with information explosion large number of people will immediately grasp the meaning of higher truth. As the time becomes

large the technology also levels off because as a vehicle for higher thought it is not any more required for its own sake. At that stage technology will help in providing happiness to human beings.

### July 19, 1997

Height ( H ) of Giza pyramid is  $\sim 147.65$  m. Queen's chamber is at  $\sim 1/6$  H ( from bottom or the base) and King's chamber  $\sim 1/3$  H. Is it possible that at these heights they may be receptacles of standing waves?



$\lambda/4 = 2 \cdot H/3 \Rightarrow \lambda_k = 393.73\text{m}$  for King's chamber and similarly for Queen's chamber

$\lambda/4 = 5/6 \cdot H \Rightarrow \lambda_q = 492\text{m}$ . The corresponding frequencies are  $\nu_k = 1.523$  MHz and

$\nu_q = 3.048$  MHz respectively. What is the significance of these frequencies ? They are in the radio frequency range.

### August 7, 1997

Recent studies (2 May 1997 Vol. 276 Science pg. 676) have shown that estrogen really helps in memory and other higher brain functions. It is quite possible that testosterone may do a similar thing.

### September 8, 1997

It seems that entry of "memory" in new body is by chance unless and until the family members or somebody close to the dead person may "will" it or "direct" it. Otherwise how does one explain the birth of Vivekanand and then his meeting Ramakrishna after almost 40-45 years even though Ramakrishna was within 15-20 km of where Vivekanand was born.

### October 17, 1997

Since birth is purely by chance hence to be born in certain household etc. can be affected by either the will of previous family or the great force of the memory. In the absence of any of these forces it is then by pure chance. This is also one of the reasons of fear of death.

### October 17, 1997

Why is there pain ? What purpose does it serve ? We are talking here both of physical and mental pain. The physical pain probably is the outcome of body trying to repair itself. But why is there such an intensity of pain ? Or is it the process by which the memory can unravel ? Since the deep memory cannot be unraveled without the intense meditation hence a similar single-minded focus is produced by pain. Similarly sexual love also produces for a short period of time the same single focus of thought.

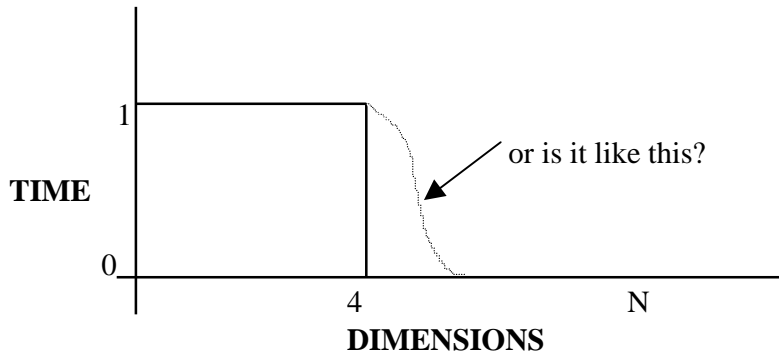
However it is difficult to characterize the mental pain and anguish.

**October 25, 1997**

Pleasure and pain are the attributes of the body. Thus it can be said that spirit can be happy only when body is available. We have said this before because the memory changes can only take place via the body (human mostly).

**November 17, 1997**

Since in the "beginning" everything was gravity, hence time did not exist. It is possible that time manifests itself when the 'N' dimensional space gets converted in 4 dimensional.



Similarly we perceive time because of our ability to perceive only 4 dimensional space - time . When our brain focuses on 'N' dimensional space we have no perception of time. Is it possible that :

$$\text{Super Gravity } G^* = G (\text{ seen presently}) + \text{ all other forces ( nuclear, E.M.,etc.)}$$

& since  $G^* \neq f(t)$ , hence G and all other forces which include time have to go through transformation.

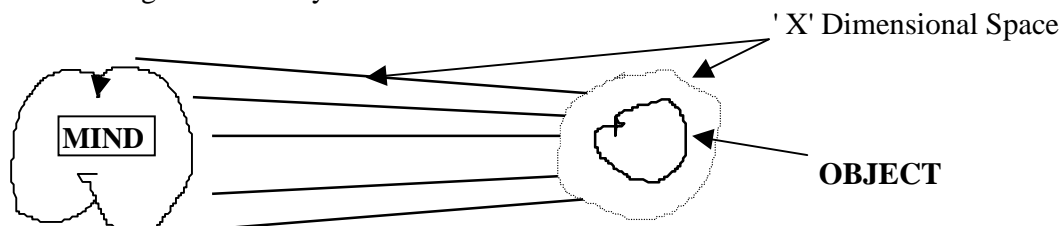
**December 20, 1997**

Is gamma ray bursting phenomenon an evidence of 'N' dimensional space converting into 4 dimensional space ? SETI frequency range is 1400-1720 MHz. It seems that the pyramid frequency range of 0.6 - 0.77 MHz may be a better answer.

**January 2, 1998**

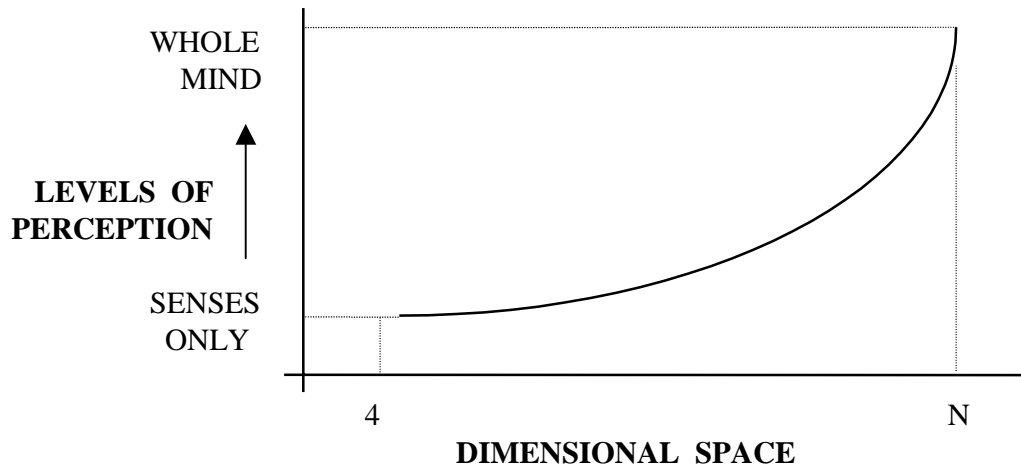
It is quite possible that when a deep thought about a certain object is made then an 'X' dimensional space (  $X < N$  ) is trapped. This has the same dimension as the object and hence the knowledge is obtained. The mind then becomes an excellent tuner and can tune to any dimensional space. For any interaction in 'X' dimensions the space becomes important.

The following scenario may exist :



When mind gets tuned to 'X' dimensional space then there is a "connection" made with the object "space" and knowledge is obtained. This is different than the objective knowledge that we perceive as an observer through our senses only. The above scheme is possible only when we obtain the information by direct perception - the highest form of knowledge. This is generally called Samadhi.

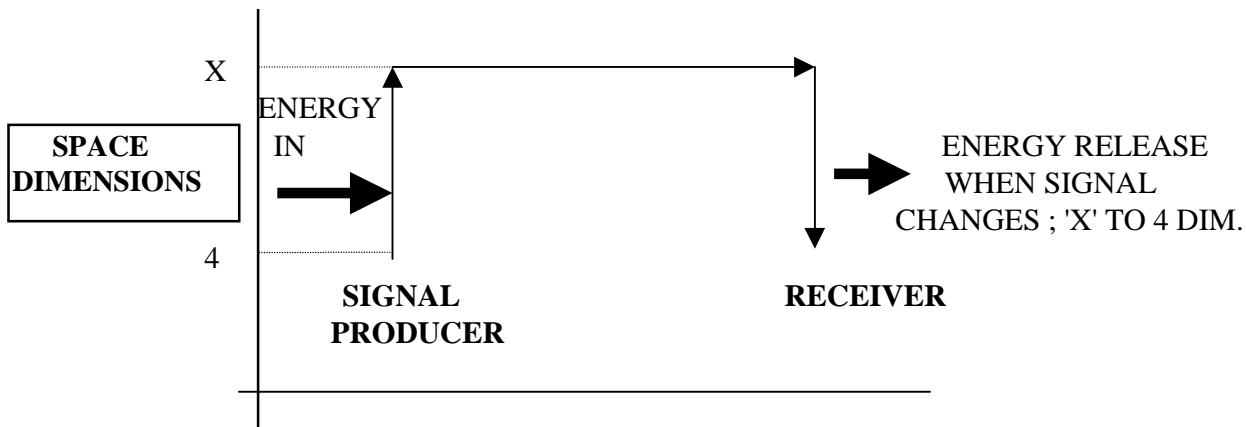
Does this mean that every object in universe has space dimensions which are more than 4 dimensional space-time. The geometry of the object itself may be a part of "field" of the object.



Quite a number of people have called "enhanced perception" as hallucination but I think that it is quite possible that the "contact" of mind with the object via 'X' dimensional space can produce this effect.

Does it mean that after the physical (4 dimensional) object is "destroyed" then its memory in higher dimensions persists ? How long does the memory persist ? Is it the reason that when we plug into the memory space via the mind then we can get knowledge. Hence time has no meaning since in the higher space dimensions it does not exist.

If the above scheme holds water than it may have interesting implications in communication. It will be as follows :



What is the nature of "speed" at higher dimensions ? I think this is not valid since at higher dimensions time does not exist hence there is no speed associated with it.

Since there is no time at higher dimensions, how does "change" take place ? Do we define a new time for these spaces or time becomes an "operator"?

### **January 10, 1998**

Hallmark of evolution is mobility. The higher evolved entities will be more mobile. First the nation, then earth and finally intergalactic space. The absorption of experience through travel is one of the highest forms of happiness. The basic tendency of human beings is to travel. ⇒ History of civilization is history of travel.

### **January 31, 1998**

Most of the temples around the world are made of massive stones and have certain height. It is quite possible that they act as antennas. Normally people will stay that they are made of stone so as to last forever but basically they are miniature mountains.

### **March 8, 1998**

Books, folklore's etc. talk about karma. That is, you are born according to your karma, you will achieve or get punishment/reward according to your karma. This assumes that your **will** or work in the present life is of little consequence. However the fact that karma effects you means that your work effects your life.

Hence a better explanation of karma could be :

1. The memory is based upon your action.
2. You are born anywhere by chance unless and until actively willed by you or somebody close to you. This also explains why somebody born in utter poverty/depravation also attains greatness by his will power.
3. The memory and genetic make-up provides a combination which guides your actions. These are further influenced by the environment. This combination provides the envelope of operation and hence in a sense one can say that your actions are limited.
4. When the memory is very strong of past births (coming close to critical mass) then the actions accordingly also start towards fruition and finality.
5. The whole basis of Yoga will be negated if we have no will power and everything is pre-ordained or fated.
6. The power of the prepared mind shines forth and helps in grasping opportunity when it arrives. Without the preparation (and hence hard work) it is not possible to go forward. Even in Patanjali Yoga Darshan it is written that Yoga and knowledge comes only to those who are intensely energetic.

### **March 8, 1998**

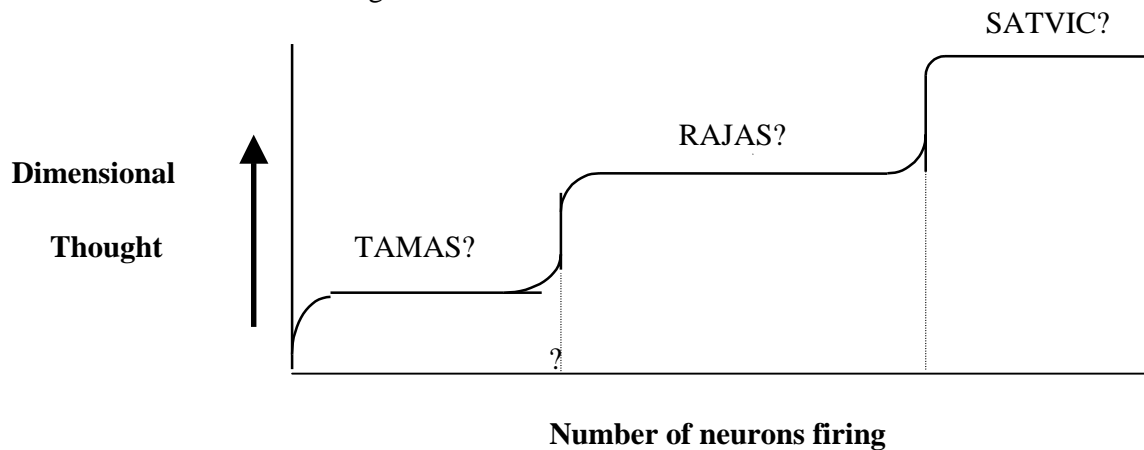
It is quite possible that the brain/memory evolves through many births (experiences) so that a very powerful mind is developed. This mind will then have a power to heal the physical body besides other things. Keeping a healthy body for enjoyment can be had for many hundreds of years. However it is a contradiction because once you have that type of mind then where is the need to have the cage of body. It can roam at will in intergalactic space. Can this mind change itself without the help of the body? What is the nature of the mind which can change its memory without the recourse to body ? What is its size and attribute ? Is it possible ? or is the body the only vehicle for this ?

**March 15, 1998**

What is the nature of dreams ? A consequence to this question is the nature of short and long term memory. It seems that during the dreaming process, in the absence of will, there is a "free flow" of 'K' dimensional thought. This is almost like a free flow of electronic charge over a material. When field (ego) is applied the electronic cloud gets localized. Thus free flow of 'K' dimensional thought then is a random memory and is the cause of weird dreams. Sometimes it is possible that outside forces ( thought waves) may effect the dreaming process.

**March 29, 1998**

It is quite possible that the molecules of certain size interact with gravitational field and become living organisms. Only for human beings does the 'N' dimensional field starts coming. Are Tamas forces then gravitational ? What is the nature of Rajas forces ? Is Satvic then 'N' dimensional. Are these quantized ? Is it possible that at the time of death the "memory" condition tells where it will go. Thus with lower field it remains with the earth ? With higher field it leaves the earth.

**April 14, 1998**

There are many instances in all cultures where after NDE (near death experience) people have come back to give similar impressions of what they "saw". One of the impressions is that of "seeing" dead relatives. I feel this is so because the memory of them still exists and hence in this enhanced state of awareness one "sees" the near and dear ones. A highly evolved human being might not "see" them.

**May 26, 1998**

We again return to Time. It seems that time is life and life is time. The concept of time only comes in life forms. For lifeless objects there is no perception of time. Time is unidirectional so is gravity. Is there a similarity between the two ? It seems both are geometric and hence could be related.

**May 27, 1998**

Time exists in all dimensions except 'N'. At the highest dimension it vanishes. It will be interesting to represent higher dimensions and time together. Is there some other 'time' in these dimensions? Or do we have an operator of time in these dimensions? (Ref. Prigogine 'From Being to Becoming'). The entity, which can perceive time, is a living one. This is the best definition of living form.



**June 5, 1998**

If there is no time in 'N' dimensional space then how is it converted into 'N-1' and lower space. However the first thing that comes out is time. Is time then related to energy ?

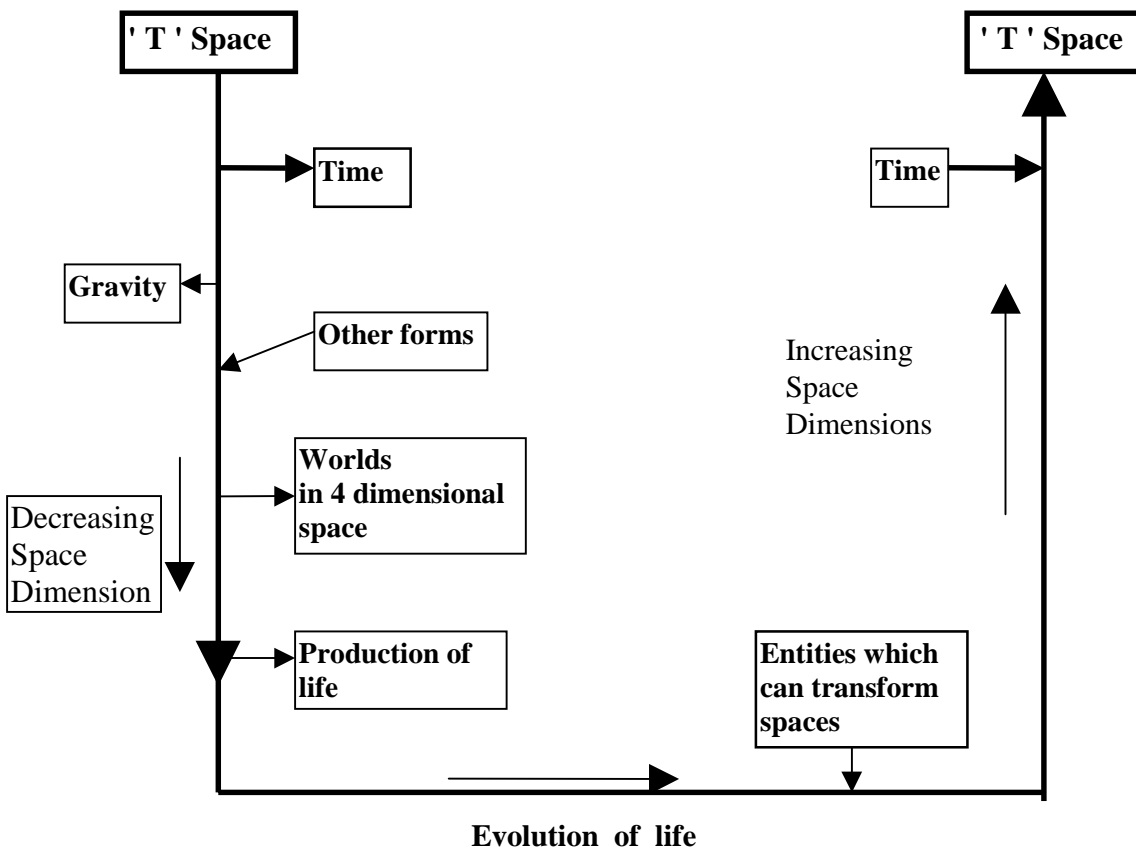
**June 13, 1998**

When 'N' → 'N-1' space transformation takes place time is produced. At no other space transformation time is produced. Thus from N-1 space downwards time exists. Thus 'time' envelope is what dictates the universe expansion / contraction. 'N-1' → 'N' removes the 'time' and dictates the possibility of contraction. Thus time is introduced and removed from the Universe according to the above transformation of spaces. Hence,

- (1)  $T_{\text{removal}} = T_{\text{introduction}}$  , Universe is permanent
- (2)  $T_{\text{removal}} < T_{\text{introduction}}$  , Universe will expand for ever
- (3)  $T_{\text{removal}} > T_{\text{introduction}}$  , Universe will collapse

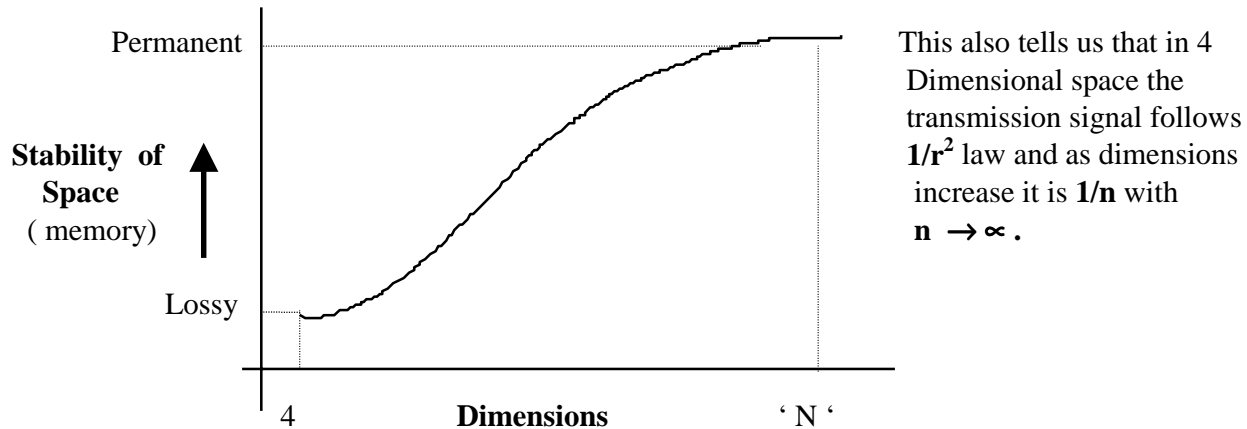
I feel that state (1) is the most plausible solution. In this scenario mini universes are being produced and destroyed continuously.

It is possible that singularities ( black holes ) not only suck space but time also and convert everything into 'T' dimensional space. Time is therefore like an 'energy' which can be introduced and removed from Universe. Does the evolutionary cycle looks like the following :



Seems very much like a big bang model except the above is a continuous process. Hence many mini bangs can take place. **Where is the happiness space in the above model ?**

The transformation of spaces may also tells us about their stability.



Thus 4 dimensional space has lossy memory and at higher dimensions the memory is more stable. The universe thus will have pockets of these memories (blobs). Travel through these spaces then may produce quantum jump in our knowledge. Hence intergalactic travel may be "very close to ultimate" happiness.

### June 23, 1998

What is the purpose of knowing the 'Mind of God' ? How does it help a common man in his day to day existence ? The following may be possible answers :

- If each one of us thinks about it then a great sense of well being and pleasure comes. It is different and more powerful than sensual pleasure.
- Once each one of us imbibes this pleasure on a continuous basis then we develop a very positive field around us.
- This field or "personality" then starts affecting people who come in contact with such beings and has the ability to produce positive thinking in them.
- This positive field magnified many fold by large number of people will produce a better world and universe. Think locally but the effect is global. Butterfly effect !

This is the teaching of all great religions and hence what we have said is nothing new.

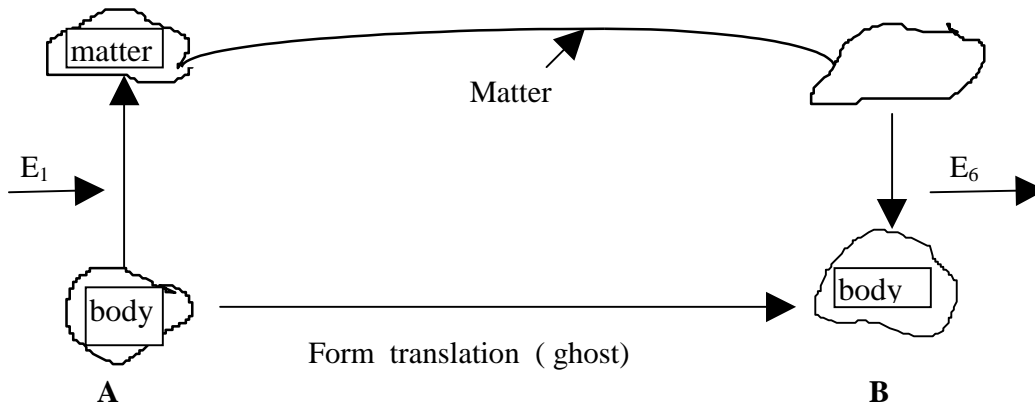
### July 6, 1998

Every geometric body develops a chaotic attractor. This "attractor" is the cause of uncertainty principle. This is a property of "motion" - motion of particles, atoms, molecules etc. Is this the genesis of " Maya".

### August 19, 1998

Psychokinesis may take place in the following manner :

The body because of energy supplied to it, changes into the constituent molecules; the template or the geometric form / field shifts through space and then at some other place the molecules are assembled in the template.



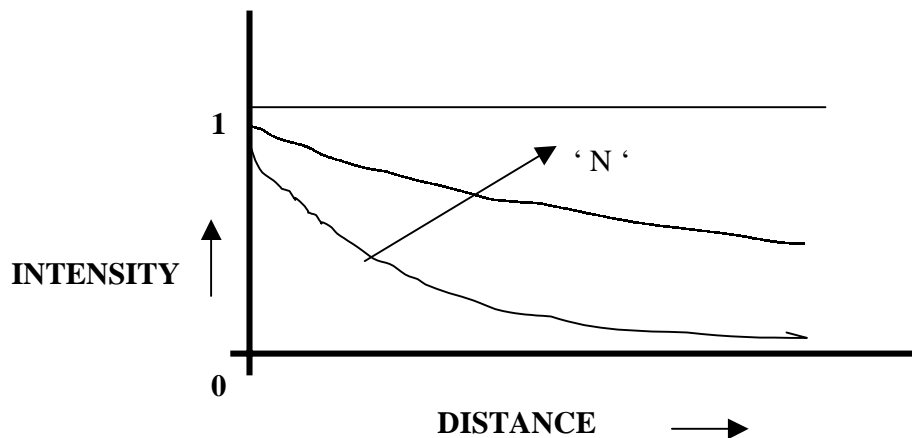
The following energies are involved :

1. Breaking of matter into its constituents ( ghost and material) ;  $E_1$
2. Transformation of these constituents into higher dimensions.
3. Translation of matter in higher dimensions from point A to point B.
4. Translation of form (ghost) from point A to point B.
5. Transformation of matter from higher dimensional space to lower dimension.
6. Assembly of matter and form  $E_6$

It should be shown that the energy  $E_6 - E_1$  is less than moving the body from point A to B physically. Also the most important thing will be to keep the form. The stability of form and its movement is the most critical part.

**August 19, 1998**

Mundane thoughts are lossy in nature and follow the usual  $1/r^2$  law. If the energy or intensity of thought is not enough they get attenuated very rapidly. Higher dimensional thoughts can go much longer distances because they interact with “ space “ which helps their propagation.



**August 20, 1998**

Where is memory located in the brain ? The existing theories state that it is stored in chemical form in different parts of the brain.

A possible answer could be that most of the memories exist as "dissipative structure" ( just like electron cloud around atom ) and that in the chemical form are few signposts. This could also explain that though certain part of the brain is physically damaged but still memories remain.

The signposts help the formation of memory and hence memory could be termed as "localized". Some information of these signposts may also be used for triggering other memories.

**August 28, 1998**

Is it possible (and we have written before) that the ultimate reality is the T dimensional space and all the happiness, pleasure etc. exist below this space. Hence the sense of happiness exists only when time comes out ?

**August 30, 1998**

Duality comes when time comes out via  $T \rightarrow T-1$  transformation and remains for all the times till the dimensional space again goes back to T. The whole world is then an interplay of T and T-1 spaces. Thus time itself brings in duality because the "being" is always in the process of becoming.

**September 1, 1998**

Lorenz "strange attractor" for weather is a butterfly like shape. This is in 3 dimensions. Is it possible to extend this analogy and say that 2 halves of the brain came because of this chaotic "strange attractor" process ? This is the mechanism underlying the chaotic process and hence the two halves of the brain evolved according to this process.

Hence the brain halves are wired in such a manner that for deep thought the whole brain works like the "butterfly effect".

**September 1, 1998**

Why are there so many species on this planet earth and why is there such a desire to procreate so that the species continue ? The answer could be that it is the only way in which the highest dimensional space can be converted into life. There is an inherent desire for the 'T' dimensional space to enjoy itself is through life.

Just like water goes through tremendous number of tributaries and forms a river hence 'T' space gets into life through species and finally through evolved human beings it goes back in 'T' space and the cycle continues. Large number of species allow the process to reduce time of cycle. From the above reasoning does it mean that the extinction of species is a natural process? This means that life force will only move through large number of highly evolved beings.

**September 21, 1998**

Wheeler's book on space-time clearly states that the mass of body increases with temp. Hence at  $T \sim O^0 K$  the mass of the body is its basic mass !

Is it possible that the scheme of things we are contemplating for brain (large scale firing of neurons produce a T-I dimensional structure) may also be valid for the universe ? Thus large number of stars and planets with their movements and energy output may produce a T-I dimensional structure. The basic character of any large number system should be same.

If our thinking is correct then INTERNET and Computers should show this same characteristics. In INTERNET the process is not focused but in Computer it is focused. Does it reach 'T-I' state ? What are the numbers involved?

What is the nature of focused thought ? It follows probably our scheme of knowledge production (May 9, 1997).

The above scheme assumes that the total knowledge of the Universe is constant. It cannot be created or destroyed. It can however be accessed and transmitted. In the creation and destruction of mini universes the knowledge remains constant. The T dimensional space is then the knowledge of the Ultimate. Does it mean that

KNOWLEDGE  $\Leftrightarrow$  ENERGY

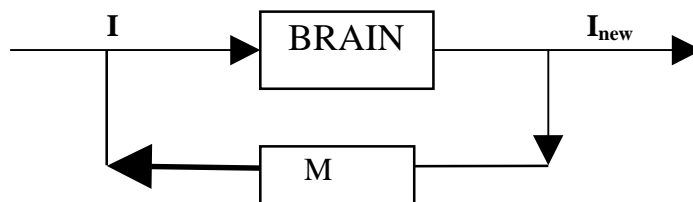
Is it possible then different dimensional planes are nothing but different energy forms.

In all these planes (dimensions) mass remains but not the matter. Matter manifests itself in 4 dimensional space. Which dimensional space is happiness ?

### September 22, 1998

What is the nature of 'I' ? It seems it always remains in the form of a "hologram". This hologram or higher dimensional space then directs the brain on matters of consciousness, will etc. For the regular mundane stuff the brain/spinal chord centers take over. The sensations of pleasure and pain are not felt by 'I' but by the body which passes it to 'I'.

How is the memory changed ? In changing the memory the 'I' itself is changed. Thus the memory which is transferred from one body to another is changed.



What is the nature of M ? This circuit is activated during samadhi and under powerful sensations - both pleasurable and painful.

**October 23, 1998**

If Knowledge  $\Leftrightarrow$  Energy then knowledge cannot be created or destroyed. It however can be transformed. This leads to conclusion that everything is preordained ! Since events in future are part of the knowledge tapestry hence they are fixed ? This does not make too much sense.

A possible answer could be : In a system the quality and quantity of energy are two important attributes. These 2 items decide the state of the system. For an open system it can have large number of states, depending upon the interaction of external forces with the system. Similarly knowledge also has quality and quantity attached to it and hence can follow the above reasoning.

For the whole universe the Energy and knowledge are fixed but for small systems like planets, spaces etc. which are open systems it can vary with time. This can therefore give the necessary uncertainty for the future. Hence locally we have the will and our karma. Universally everything is preordained.

**November 12, 1998**

Is it possible that 'I' comes in the picture only when the brain is able to produce higher dimensional thought. This may happen at the age of 2 or 3 years for humans. Can we then say that 'I' is for a particular body only? This 'I' then may be transferring from one body to another.

**November 28, 1998**

Pain is possibly one of the key mechanisms of removing or modifying the memory. Also any experience that is very intense can do the same. Pain possibly allows very intense concentration of thought. Intense pleasure should also do the same and could be the genesis of Bhakti Yoga. Otherwise the memory can be modified by the Yogic process - the Samadhi. It should be interesting to look at the pain centers of the brain.

**January 28, 1999**

Since pain is one of the mechanisms of removing memory ( a step before death) hence the memory of death is painful and is retained. This may also be one of the reasons why we are afraid of death. Similarly the memory of intense love and pleasure should also be retained. Only mundane memory is removed. The deep memories are not removed. They can only be removed by samyam!

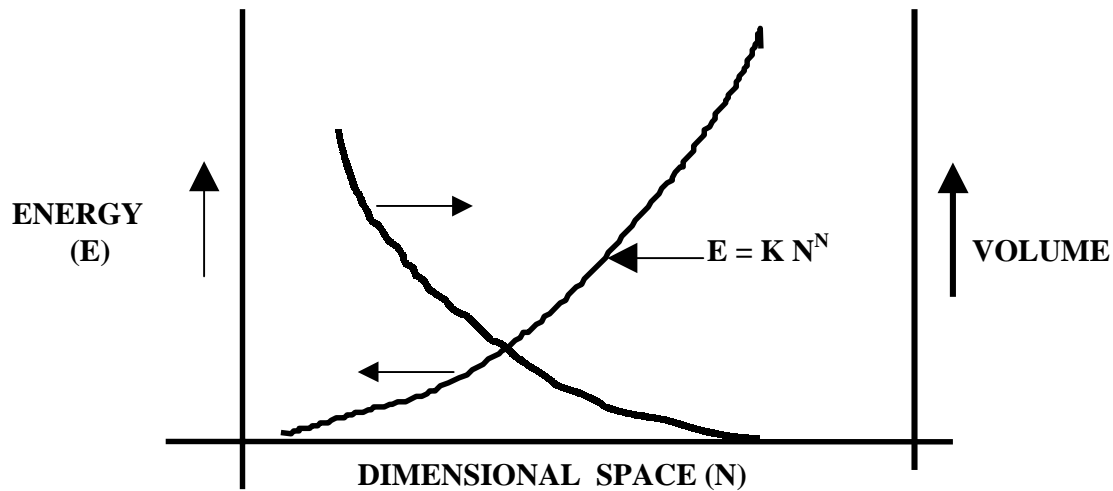
**February 15, 1999**

Since time is removed and introduced into the universe when  $N \Leftrightarrow N-1$  dimensional transformation takes place, is it possible that it may have geometrical properties? It is quite possible that everything can be described in geometrical language. The higher the dimensional space is the more energetic it is and vice versa. Time however has a fixed geometric property ( or dimension; what is it?) and hence a certain energy.

$$\text{TIME} \Leftrightarrow \text{ENERGY} \Leftrightarrow \text{SPACE}$$

Since time has a certain dimension do we say that most of the space in the universe is of that dimension only. Nevertheless transformation can take place between the dimensions.

Also since time is of  $N-1$  dimensions hence it requires tremendous energy to stop it. Only a space of  $N$  dimensions can change it and follows from our earlier reasoning. Thus higher the dimensional space more energy is required to change its characteristics.



**March 3,1999**

It is quite possible that the random thoughts that come out of the brain may have certain structure which is then modified by 'I' to give it a shape of a concrete thought.



This could form the basis of new architecture for computers where memory could be tapped and then the signal modified to produce a proper output. The advantage of such a scheme is :

- a) It frees up large amount of memory since the final signal is not produced from the main unit.
- a) Has tremendous flexibility of modifications of the signal. Nimble footed brain !

Also the random thoughts are the dream where the modifier is absent. Still the nature of modifier or 'I' is not very clear.

The above scheme could be developed both by internal and external inputs. Thus the "modifier" acts both on internally generated and externally received signals.

**March 29, 1999**

Recent evidence (Discover March 1999) suggest that under stress (pain) brain releases glucocorticoids. This has the mechanism of memory removal. The article also suggests that increased stress removes a certain portion of brain ! The evidence on this is not foolproof.

**April 9,1999**

How is it possible for lower dimensional space to transform into higher dimensional space? Energy of the living systems is required to do it. In the final transformation from N-1 to N probably the gravitational forces are so great that they do the necessary work.

**May 28,1999**

It seems that the spine has to be vertical with the earth's surface i.e. It is normal and pointing towards center of earth. Is it also the reason that evolution to upright position was dictated by this mechanism or viceversa. Since spine is like an antenna hence being normal to the earth's surface is better than horizontal. What is the nature of gravity, which interacts with the spine?

**June 4,1999**

The feeling of well being or happiness that results when one is in deep thought comes from stimulation of pituitary gland. That is also possible by focussing on the tip of the nose whereby the pituitary gland is again stimulated. This can only happen when the whole brain is involved. Intense thought of hate, rage etc. may not allow relaxation of hypothalamus and hence stimulation of pituitary.

**July 8,1999**

It is quite possible that ' I ' is a higher dimensional space memory and hence can only be unraveled or modified by an interaction with higher dimensional thought. Hence in Samadhi or very deep thought it is possible to change its contents. Is it then the reason that in lower animals this ' I ' remains unchanged except only at the time of death when the intensity of thought may change it or interact with it. It is therefore quite possible that remnants of memories of previous birth remain. It also may explain that pain may be necessary for interacting with this memory.

**July 23, 1999**

Is it possible that earth is like an antenna dish for human mind receiver? Thus the human mind need only to tune into the earth's changing " field " to gather intergalactic " news ". The gravity of planets will then decide what type of news we get. This is similar type of reasoning we have given before.

**July 26, 1999***Theory of worlds*

- a) All gods, deities and super persons came from distant planets and advanced civilizations and took the human body via birth. This was done to improve the quality of thinking on this planet.
- b) It is easier to transfer the thought in intergalactic space than the body since the energy requirements are smaller. This allows being born as humans much easier. For these superior beings the knowledge of planetary movement is very important because their memory transfer to earth is guided by gravity. It is quite possible that this must have led to the importance to astrology. Later on it degenerated to seeing the effects on mortals life.
- c) There were only three races on this planet earth, which came from different planets; whites, Mongolians and blacks. Our caste system came into existence because of the desire to keep the purity of the race. It could mean that we are a very ancient civilization. An article in NATURE (or Science of 3/7 2001) confirms this theory.
- d) We keep on evolving from one planet to another till we either become a T-1 space or else T. In the latter case we dissolve into cosmic consciousness. It is quite possible that it may be very difficult to go to T-1 space directly from earth because of its gravity.



**September 2, 1999**

The desire of every living organism is to have a medium i.e. body. This is the reason why we are afraid of death and hence without body. It is also the reason why proliferation of species takes place.

The desire of body exists because memory-strapped life force requires it to change itself. Thus the dissipative structure requires energy and which the body can provide.

It is quite possible that at higher dimensional space, which can only be obtained through human mind, the energy exchange without body could be possible. But for four-dimensional space - time which exists for majority of bodies it may not be possible.

It is also possible that on this planet earth life did evolve independently and thus the memory space could go through evolutionary process by becoming bigger and bigger. But in order to speed up the process human form was introduced from outside planet.

**September 5, 1999**

The modifier (March 3, 1999 writing) is absent during sleep. What happens to it?

**September 8, 1999**

One of the earliest reflections of Shri Ramakrishna was that he would go into deep Samadhi when he saw very dark clouds (almost black) and white swans flying against this background. Astronauts saw similar thing on their moon trip. Absolutely jet-black "sky" and white lunar landscape was described by almost every astronaut as "unbelievably beautiful".

Did Ramakrishna come from one of such places ?

**September 10, 1999**

How does a deep thought from the brain move mountains? A 20-25 W energy for the focussed thought is hardly capable of doing much. The answer may be provided by chaos theory. This low ( 20-25W) signal triggers the already " far from equilibrium system" and thus the system itself produces the work. However the signal from the focussed thought has to be of that particular dimension before it can trigger the system. This is so since the system is at that dimensional space.

**September 22, 1999**

In the 4 dimensional space-time the signal is attenuated according to  $1/r^2$  law. This is because the surface area of spheres  $\propto R^2$  ? What happens in the higher dimensional space? What is the equivalent "sphere" in these dimensions ?

**September 23, 1999**

Since memory space is geometric in nature, is it possible to find out when does the distorted space-time continuum (by gravity etc) converts into higher dimensional space.

Thus there is a possibility that at certain distortions the space jumps like a quanta into higher dimensions. What is the mathematics of such conversions. This is what we wrote in April 5, 1994.

### September 27, 1999

Continuing on the subject of 'I'. It is like a symphony director. Depending upon its capability it can allow a certain thought to continue for a certain length of time. The thoughts are coming from all different parts of the brain. 'I' allows them time to come up and dissipate. Its attention span is different for different people. With practice 'I' can keep a thought for a longer time.

Once the particular thought is kept for longer time, it has its own mechanism to start exploring other parts of the brain. This happens because the 'energy' for this dissipative structure has to come from all over the brain. In this process the following can happen.

- a) The whole brain can be used for this single thought for a long time.
- b) The use of whole brain for a long time will start releasing long-term memories. This is the only mechanism for memory release and their deletion. This is the basis of Yoga. In this process new neurons are formed and old die away.
- c) This thought because of its higher dimensional attribute can then plug into the 'T' dimensional space for knowledge transfer.

This 'I' is nothing else but 'T' dimensional space with memory attached. It enters into the body and lodges into brain. Only when the brain develops and large number of neurons become active then this 'I' becomes active. It is therefore quite reasonable to say that 'I' ness in human comes in 7-8 months when the brain becomes functional i.e. it has reached critical mass stage. It is at this time that a child starts understanding his/her name.

This might also explain that some early life dreams come to children about which they had no experience in the present birth. This can only take place because of the memory release when 'I' becomes functional.

This line of reasoning also has another implication. If by chance the human 'I' gets into the body of an animal then the full memory is not released and it remains in its original form till this 'I' is released from that body. A small amount of memory in 'I' is required for the purposes of living of the animal. The 'I' remains inactive outside body. Only with body it starts its activity.

### September 28, 1999

It may be possible that brain works in 3 ways.

1. It produces thoughts, which are nothing else, but processing of information obtained from senses.
2. It sends thought packets. Only very intense thoughts can have the mechanism to be converted into higher dimensional space and hence can go far.
3. It can receive knowledge and information when it creates higher dimensional structure and that this structure then hooks in the knowledge space.

### October 4, 1999

Is it possible that there is a space in the brain, which stores only negative thoughts? Conversely there must also be a space which must be storing positive thoughts? It seems weird because how does a brain know which is positive and negative thoughts. This reasoning has come because once a negative thought comes then many more other negative thoughts start coming out as if a person is being engulfed in a spiral of these

thoughts. Is there a feedback loop in this process ? Or is “ I “ in the mood of thinking only negative or positive thoughts.

### **October 6, 1999**

Since the mechanism of transmission of thought is via higher dimensional space, hence it is not a good idea to have negative thoughts about a person since it can bring all his negative thoughts to oneself. The thought interaction is a two way street.

### **October 6, 1999**

The process of spontaneous human combustion could be explained by the mechanism of thought engine. When, for whatever reason, a higher dimensional thought comes to a human body by chance it can release very large amount of energy, which can cause spontaneous combustion. However an alternative theory is that fat in human body provides the fuel and the body becomes a self contained and sustained combustion chamber.

### **October 6, 1999**

More on the theory of karma. Karma is nothing else but the memories of action whether present or past. These memories then guide our brain to act in a certain general manner. Naturally the structure of the brain, which is dictated by the genes plays an important role. However the memories do play a dominant role. So when we say ( according to the ancient Indian religious system) that we will have to pay the price according to our karma, it is nothing else but the process of how these memories will help us act and in the process they unravel themselves.

Another way of their unraveling can be achieved ( and much faster) is by deep positive thought or Samadhi. This is the essence of the ancient tradition of Yoga. By that process one can unravel them in one lifetime.

### **October 11, 1999**

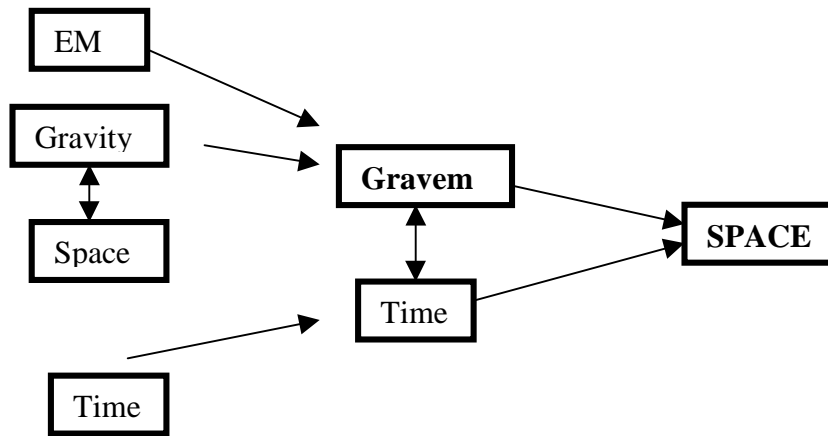
#### On sleep and dreams

When we sleep the director ' I ' is not active. This allows the brain to be under the influence of external forces. Thus it seems the earth's gravity helps in " charging " it. The sense of well being that we feel after a good sleep is not to the body but to the mind. This is akin to what one feels when a deep thought produces a beautiful revelation. Thus it could be possible that the firing of neurons of major part of the brain are being controlled by gravity or are in resonance with the earth's EM activity. It might be interesting to experiment on the nature of sleep and dreams in varying gravitational fields.

### **October 19, 1999**

Is it possible that the dimensional space and consequently the worlds may look as follows:

1. A four-dimensional space-time continuum which we see and live in.
2. A bigger dimensional space in which gravity, EM forces etc. merge and hence will have **Gravem** ( Gravity + EM ) - time continuum.
3. A ' T ' dimensional space in which time also gets sucked in and only SPACE remains.



<b>Dimensions</b>	4	?	T
<b>State</b>	Mortals	Semi- Gods	GOD
<b>Wave speed</b>	C(velocity of light)	?	Definition of speed does not exist, since time does not exist

It is quite possible that we may not be able to really understand the " T " space while remaining in 4 dimensional space. We may feel about **Gravem - time** ( G-t) continuum but " T " can only be 'felt' after we reach or cross Gravem-time space.

**October 22, 1999**

Idiot Savants can do amazing things like calculations, art, etc. almost on the level of genius. Scientists say that this ability exists in all humans but is suppressed by consciousness ( New Scientists 9 October 1999). This is similar to what we wrote about what must be taking place in the dreams. Bhakti Yoga is also the process of sublimation of the self into super consciousness.

**February 8, 2000**

It seems the form of living things has a memory of its own. For example templates are formed of these geometrical forms and that knowledge exists till it is "dissolved" by the forces. Does it mean that we should be able to see dinosaurs or other dead species in higher dimensional space? Is this what demons, etc. are?

**March 31, 2000**

All lower animals work hard to procreate and progress their species. However the higher forms of life (humans beings) should work towards development and progress of knowledge especially from space. This should be the aim of life. Once this is achieved then this knowledge should be given to lesser mortals for their upliftment. Maybe this is the reason why one gets happiness in publicizing ones efforts.

**June 15, 2000**

The overriding factor in anything a person does is to create love and harmony. The human bond should be strengthened. Everything else is dissipative in nature except human bond, which can form long term memories. That maybe the reason why in all religious love for human beings and in turn God is emphasized. This strength comes from intensity of thought and hence higher dimension.

In our zeal for trying to transform the world, we forget the power the healing touch of human bond. A powerful human bond radiates love and friendship and can bring in changes in people who come in contact with such a human being.

### **August 11, 2000**

The question of form is intriguing. Why we develop into our form. Naturally, most scientists say that we are genetically wired. However what happens to the form after death. I believe the "ghost" survives and it is a higher dimensional unit. Thus, it seeks to always have a body.

### **August 14, 2000**

Theory of human evolution

- 1) The whole process of human brain is to make the mind connect to higher dimensional space. Thus there are following type of souls:
  - Earth bound - which cannot connect to higher dimensional space and hence remain bound by earth's gravity. Connecting into higher dimensional space allows them to travel away from earth's gravity field.
  - The souls, which can connect to higher dimensional space, can also leave the body at will.
  - One form, which can go into another form (body), creates a lots of problem. It can result in unfulfilled desires. Generally the lower forms can go into higher form body. However only few higher forms can go into lower forms body.
2. It is possible that just like hologram where 2 dimensional photos can be converted into 3 dimensional form, to have forms in higher dimensional space. This is similar to what we have written before where higher dimensions are produced from lower dimensions (thought engine).

### **December 22, 2000**

Gravity is quantized (from my dream). Look at the possibility of getting a mathematical framework on it.

### **December 26, 2000**

Only deep thought can produce profound knowledge because only it has the mechanism of extracting it from higher dimensional space. The mundane thoughts occupy 4 dimensional space.

According to the present theory - a dead and lifeless object like black hole produces worlds, which ultimately produce human beings of very high consciousness levels, and then the whole thing again becomes a dead thing and goes into black hole (big collapse). This somehow does not make sense.

Is it possible that consciousness is conserved and just goes though different life forms? It is neither created, destroyed but could be transformed.

**December 27, 2000**

Whenever a great yogi thinks and concentrates very deeply then it is very difficult for him/her to come out of his/her trance. This is because the higher dimensional thought structure gets "enmeshed" in that dimensional space and it requires a great effort to disengage. Ramakrishna could not come out of his trance for almost 6 months!

**January 27, 2001**

Nature has all the answers. This is because our brain is a function of the time and hence we cannot think more than what already exists. We "think" that we have discovered new things but they already exist somewhere in the universe.

**February 2, 2001**

What is time? It could be nothing else but movement of a body through space.

No movement through space  $\Rightarrow$  no time. All times are measured as movements. If time is associated with space then it can get dissolved in space at the highest dimension where only space remains. Since time is an outcome of movement hence it is related to energy.  $\text{TIME} \Leftrightarrow \text{ENERGY}$

Is it possible that with time, matter and hence gravitation came out simultaneously?

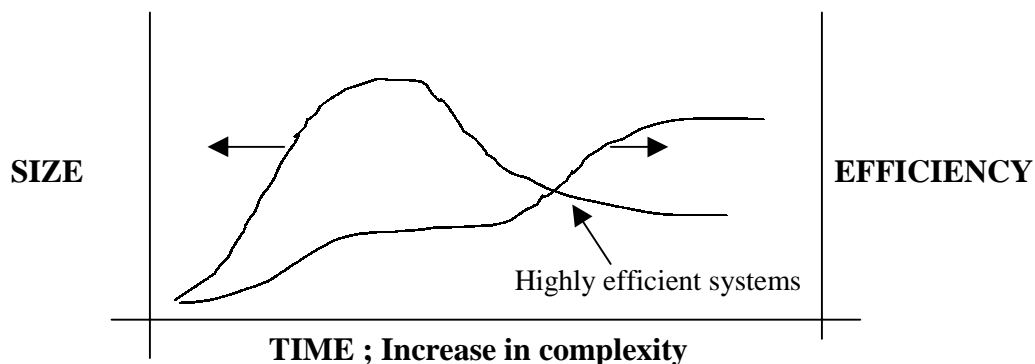
**February 26, 2001**

If your brain becomes very nimble early in life then you will not live since you will identify with every living and inanimate beings and things. This will bring misery and can develop aversion to living. Hence this malleable brain should be discovered later in life. However later in life the brain starts petrifying. Thus there should be series of positive experiences, which one should have early in life to move forward.

This could also be a reason that Vivekanand was not allowed to experience this state by Ramakrishna. The trick is to have this veil removed just before you want to go.

**February 28, 2001**

All technologies and life go through the process of change in size.



Examples are:

1. Bacteria  $\Rightarrow$  Dinosaurs  $\Rightarrow$  Humans
2. Lab models  $\Rightarrow$  demo units  $\Rightarrow$  full systems  $\Rightarrow$  bigger systems  $\Rightarrow$  efficient systems  $\Rightarrow$  smaller units.
3. Power; small decentralized Edisonian systems  $\Rightarrow$  very large power plants  $\Rightarrow$  Micropower units.

It seems that the initial development has a momentum of its own. Thus it goes "overboard" and is like over expression of "joy". After that the other forces start to exert and equilibrium is attained. Also the large size allows "space" for working before optimization results.

### **March 28, 2001**

The process of large number of neurons firing produces a space dimension, which is quantized. Thus with certain number of neurons firing the dimensional thought is in fixed whole numbers. We have written about it before (pg. 13, April 15, 1994).

Nature uses similar laws from the smallest to the biggest. Thus the energy levels of atom are quantized similarly one can think of dimensional attributes of thought at different intensity as quantized. At higher dimensional process different laws may apply for velocity etc.

### **April 17, 2001**

The transformation of 4 dimensional space into higher dimensions via the thought process is an example where the personal "God" is merged into universal consciousness or Ultimate God. As long as we remain in the 4 dimensions we have our identity. At higher dimensions that identity starts merging and at ultimate dimensions it is gone as part of "background noise". That is the first and original WORD!

### **April 17, 2001**

*Theory of life.*

All life forms want to procreate and are afraid of death because this system allows maximization of their numbers. The higher dimensional space starts into cycle like that. We have written about it before.

As the species evolve, we the evolved species start playing God and ultimately we become God. That is the evolutionary process.

Why does the God or ultimate space goes through this charade of starting its journey through the humblest of living system and evolving into highly thinking brain. It is because movement and "becoming" is the only way in which consciousness can exist. A system in which nothing is happening is a dead system. The ultimate space can only "feel" through living systems. Hence the space just below the ultimate space is the place with the greatest joy.

### **April 25, 2001**

A human being starts becoming very secure internally when he/she becomes honest with himself/herself. That can only happen when you start understanding the true nature of human/universe relationship. This is the yogic process in which all the gunas get resolved. Internal security leads to:

1. One is not interested in showing off. Hence one becomes self-content.
2. There is more desire to know hence less desire to indulge in talking/discussing.
3. Suppression of anger and negative thoughts.

**April 28, 2001**

There are quite a number of cases where the out of body experiences (OBE) has shown that there is an "umbilical cord" which remains attached to the body. In this mode there is a feeling of 'I'. Once the cord is broken (death) then it will be interesting to see what happens to 'I'. It is possible it remains in its primeval form and is the memory transferred during death.

**May 4, 2001**

It seems like everything at nanoscale obeys helix principle. When the atoms are drawn in very thin (nanoscale) wire they follow a helix path. It seems everything in nature follows helix path DNA, etc.

**June 1, 2001**

The mass, inertia, bending of time-space continuum around a body is the characteristic of dead bodies. A similar thing must exist for living things. How do we define mass, inertia and space around living things?

The mathematical framework will come from "large number" mathematics. When large number of molecules/neurons "vibrate" in a living body or "throb", they constitute the living body's mass. This higher dimensional space (we have written about it before) then produces all the attributes of "ethereal body" or "*sukshma sharir*".

How does this "*sukshma sharir*" interact with the gross body and what is the relationship?

From Einstein's theory excess radius of gross body is:

$$GM/3c^2 \quad \text{where } M = \text{mass of body and } c = \text{velocity of light.}$$

Similarly excess radius (*sukshma sharir*) of living body should be calculated.

**June 6, 2001**

There have been many recorded instances whereby people can read some events of another person's past or sometimes even of future. Most of the times these "clairvoyants" say that the material appears in written form in sky and they extract the necessary information. It is very possible that they tune into higher dimensional space where things become "visible" for them.

**June 21, 2001**

The description of "powers" in Patanjali Yoga Darshan in chapter 3 is a natural outcome of the trained and controlled mind. The chapter simply states the obvious. It is these "powers" or the methodology that can be used to go to the deepest recess of mind to unravel the old memories and free the "space" of its attachment (memory). It is like formatting the hard drive. The "formatted", space or atma, etc. then take on new memories and the cycle continues.

**June 28, 2001**

Is it possible that "movement" holds the key of transformation of one dimension into another? At great velocities and "vibrations" which maybe found in block hole we may ultimately reach the highest dimensions. Even simple vortex or rotary motion at high velocities may be a mechanism to go into higher dimensions.



**June 29, 2001**

The act of knowing something deep itself means that the brain will interact with the object. That can only happen when the thought and the material object have similar characteristics. The template of the object then matches the thought template. We have written about it before.

**June 30, 2001**

The reductionists say that from the smallest building block one should predict how the universe will behave. Also they want to reduce everything to the simplest building block.

However it is quite possible that there is a major plan or template. This plan requires building blocks and they are produced as per the convenience of the plan.

**July 3, 2001**

Children (who have active imagination) daydream a lot. They create imaginary beings etc. Yet the children fully understand that it is a make believe entity. Scientists have been baffled as to why children do this.

A possible answer is that this is the origin of "Samyam" of Patanjali Yoga Darshan. The brain of active children is very powerful and in the absence of any structured thought or focus, starts the movie of imagination. Once this movie is started then there is a continuous flow of thought in this direction and the movie becomes bigger and bigger and takes a life of its own.

Why is it done? Because deep thought produces happiness and hence daydreaming is a happy process.

**August 8, 2001**

What is the nature of sadness and happiness? What constitutes sadness and happiness and what are the centers in the brain for this? It is quite possible that only when the brain gets of particular size that these emotions come out. This is very different from consciousness, which may follow Darwinian's laws, but emotions are different.

All the senses are basically sensors for the brain processing. If all senses are stopped then the brain processes the stored memory only. That is the basis of sleep and dream. Because in this state all senses are nearly dormant. However in some "heightened" situation the brain during sleep can also become a receiver. That could be the basis of clairvoyant dreams!

In the state of Samadhi or deep concentration we can also achieve the state of "dormant sensations" but a very active mind with "I" focussing on a single thought. The brain memory is required to do the processing and hence the senses are cut off automatically. That is the reason when somebody is in very deep thought he/she is oblivious to the surroundings.

**August 10, 2001**

Is it possible that when a small part of brain works then depression/sadness results? When the whole brain is firing then a sense of happiness results. Whole brain working on single thought is the basis of samyam in Yoga. Samyam results in happiness.

**September 29, 2001**

Each one of us comes to this world to produce two types of infrastructure. One is the personal one  $I_p$  and other is international  $I_i$ . Hence till our death each one of us produces

$$I_{\text{total}} = I_p + I_i$$

The great leaders, both in spiritual and political/economic fields create more  $I_i$  and their total is also high. When a tremendous  $I_p$  is created then it also helps in  $I_i$  as if  $I_p$  spills over to  $I_i$ .

Most religions teach that  $I_p$  is very important but to my mind  $I_i$  is equally important as it helps the mankind to evolve and move forward. It will be interesting to find optimum  $I_p / I_i$  ratio.

**October 8, 2001**

It is also true that  $I_i$  only happens when  $I_p$  has reached a high value. Thus energetic souls do not die unsung! However what about Hitlers, Stalins, Mao's of the world? They have very high  $I_i$  but in the process human life goes through tremendous hardship. Probably the tyrants, etc. also come to this planet earth for a purpose about which we do not understand presently. The killings in Mahabharat and present day killings in wars have same characteristics.

**November 2, 2001**

Since body is highly evolved hence it must have a mechanism to produce all the technological effects that we have developed i.e. Flying, lasers, Internet, etc. This comes from our earlier writings where we have stated that we cannot dream of anything, which does not exist (27/1/2001). The main point is how do we rediscover all the technological powers? Patanjali has given in some details how it can be done.

**November 5, 2001**

Why is death so painful? This is primarily because the mind is withdrawing from all the senses. Unless and until it is done by will power, this process is opposed and hence the pain. By Yoga and hence the will power one can leave the body without pain.

If the natural death takes place then the ghost or ethereal body does not exist and hence the memory can be reborn in any life form. If the ethereal body exists then it will be difficult for it to be born till it is resolved into memory. Is it also the reason, why killing a life form is not allowed because it produces ethereal life forms and they have to be resolved by external forces. What happens if they are not resolved? Probably they clutter that dimensional space!

Following the above reasoning is "I" then the total sum of senses from the body? Once the body vanishes "I" also should vanish!

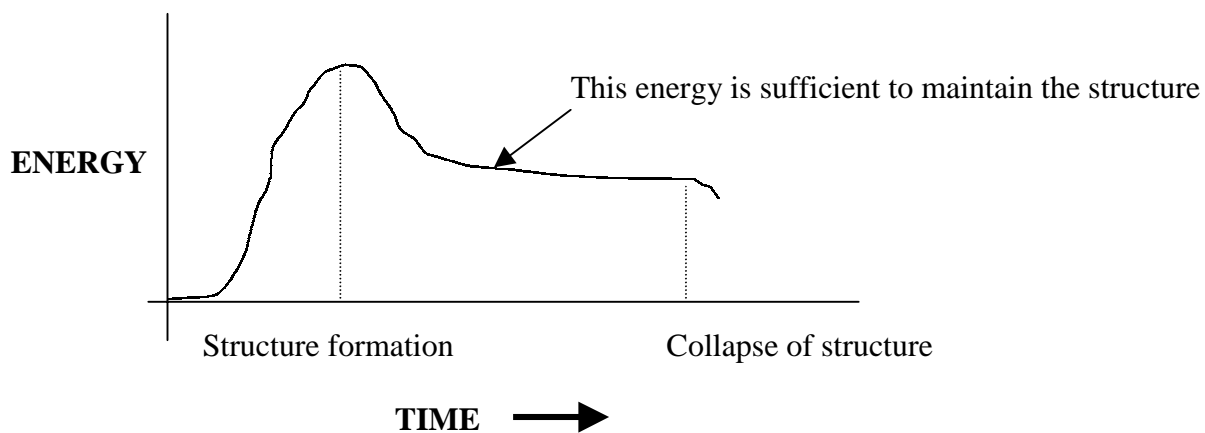
## December 11, 2001

We return to the focussed thought again, Unless and until Sanyam is achieved the energy of the brain is frittered away. The "lasing" type action of the brain is only possible by Sanyam and hence the need of thought control as enunciated by Patanjali and other Yoga teachers.

With "lasing" action the transition to higher dimensional thought is in quantum jumps. If there is enough energy than the higher dimensional stay is prolonged. Otherwise it is like touching and then again coming back to 4 dimensional state. Energy band gap model of atoms is a proper choice for this model. What is energy required for this transition? Obviously the energy is not very high but quality of energy is high.

During the high quality energy development and through Sanyama i.e. for a very long time the mind is fixed on an idea, it seems that this churning and firing produces a "rigid" structure in higher dimensional space. The structure in 4-dimensions is not rigid and hence dissipates easily.

Is it possible then to produce a rigid structure in one shot (or quantum) and then allow this structure to retain its structure with minimal energy?



For e.g. Buckminster fuller geodesic dome is an example of stable structure with minimum material. This is an example of passive structure. For dynamic structures like Prigogine's dissipative structures they have to follow similar laws but in different dimensions.

## January 22, 2002

It is quite possible that from higher dimensional space one can "see" what goes on in 4 dimensional space-time. This may be the genesis of prediction since the path can be seen much better as compared to in 4-dimensional space-time. Thus one may be able to see the events but cannot change it. What probably can be changed is the advice on path and time taken.

Why certain time and space maybe harmful or beneficial to somebody will probably depend on chance. Anybody who comes at that space-time confluence may undergo or experience a certain event. It is not necessary that it may be marked for a certain person only. This is what the great mathematician Ramanujam used to say that death comes when a certain time-space confluence is achieved.

This "seeing" of 4 dimensional space from higher dimensions is akin to somebody seeing 2 dimensional space from 3 dimensions.

### **March 11, 2002**

Every event has five dimensions by which the event can be characterized. They are three of space, one of time and the fifth is the event itself. In this process it will be interesting to see whether only that event could take place and nothing else. Or was it by chance? If the above reasoning is correct then it is possible that the event was predestined and it is an outcome of something similar taking place in higher dimensional space. Is this five dimensional space is what we have been talking about ?

### **March 11, 2002**

Read today an article in Nature (Vol. 416, 7 March 2002 pg. 12-14) regarding how brain process music. All the regular things were talked; PET, which part of brain is activated etc. But the major question of why we get goose pimples when we hear soul stirring music, was left out ? Or put it in other words there are neural pathways activated, which are similar to euphoria and reward like eating or sex.

Why is it so ? The biologists want to see the evolutionary process of music and its uses. They don't seem to know why we are endowed with musical ability and why we should have emotional stirrings. The answer lies in Sanyam ! As the brain starts concentrating on a single thought for a long time it effects the pituitary gland and gives a sense of well being. Music produces the same effect on the brain and is based on principle of equivalence.

Ability of the brain to grasp music (goose pimple type) activates the same centers as Sanyam. We have written about it before. Also brain can only appreciate the music when large no. of neurons are involved.

### **March 29, 2002**

When Sanyam is done (reflection, meditation and contemplation) on a single thought it means that it is done for a long time. Long time is the key to Sanyam. It is quite possible that with long time a dissipative structure is formed. This dissipative structure then allows the information transformation to the higher dimensional space. This dissipative structure produces a resonance with the knowledge space. We have written about it before.

In case of deep thought for a short time we may produce a packet which can travel to the knowledge space and interact. But it is mostly like e-mails. With Sanyam it is like a huge bandwidth where the knowledge is transferred in huge quantities.

### **April 6, 2002**

Is space a function of energy ? We have written about it before. What we see as 4-dimensional space-time is at "room temperature". At very high temperatures or energies, the space may become higher dimensional via the "Thought engine". This may explain the missing mass and other anomalies of cosmic world. Also we can take the thought to higher dimensional space by actively making large number of neurons fire in laser type action for a single thought for long time.

At very high energies the signal from the body goes in higher dimensional space which we cannot "see" and hence assume it to be lost. Thus our world is like a crystallization of higher dimensional world since the energies are not high. They are at "room temperature".

All quantum jumps can be thought to be dissipative structures. They are products of energy inputs. Similarly when energies become very large then the space have to have extra dimension to "accommodate" the high energies. Thus is necessary for dissipative structure to form. That may be the essence of thought also. Time and intensity together produce the high energy thought.

### **August 14, 2002**

Is it possible that Dinosaurs were wired differently than present living species? Thus at the impending crisis they committed suicide en-masse. This is similar to beaching of whales and other large sea animals. The mass suicide does not have a very good explanation yet. It seems that biological life development in early stages may have more interconnections and connectivity than present life form. This is quite similar to our technological development where we have become extremely connected and an impact on any scale server will jeopardize the whole system and has a cascading effect. This has been seen in both electric power failures and in Internet failures. For survival and progress it is necessary that each organism becomes as self sufficient as possible and can take and reject at will the forces surrounding it. This can only happen when that organism is highly evolved, very efficient and has developed technology to convert different surrounding forces/fields to its advantages. That is the sign of evolution. Our Internet and Dinosaurs were at the same stage and level of development.

### **September 28, 2002**

In the Yogic process (Sanyam) we actively cultivate our brain to focus our mind on a single thought. This process removes our mind from the senses and in doing this repeatedly can help Yogi's leave the body at will and with ease. The removal of mind from the senses at the time of death is a very painful process. However Sanyam helps in doing it, hence the above reasoning.

### **October 12, 2002**

Recent evidence (New Scientist 28 Sept. 2002, p 15) suggests that body has a natural electric field and the disruption of it causes disease. It is exactly what acupuncture people had been saying that the disease comes when the equilibrium of Yin and Yang is disturbed. This electric field may also be the "Sukshma Sharir" that Yogi's talk about. The exact profile of this weak electric field is still not understood or measured.

### **November 11, 2002**

Why do we practice Bhakti Yoga? As we start touching higher dimensional space during our progress in spirituality we need the help of somebody to guide our path in that dimension. As we have written before, the path in the higher dimensional space is quite clear and its "translation" into four-dimensional space-time appears random. Thus for the events happening in higher dimensional space we need the help of spiritual guru, deity or superior being to tell us and guide us. This is achieved easily by Bhakti Yoga.

**December 18, 2002**

Scientists have shown (Discover Dec. 2002) that at nanoscale levels there is a very strong possibility of creating order out of chaos. It is quite possible and these ordered systems then link up together to produce a thinking brain. It is exactly how we are evolving in our technology where we are using nanotechnology to produce very efficient systems and structures and probably these structures and systems put together will produce large systems which will be very efficient and useful. Nanotechnology allows this process.

**January 21, 2003**

When we think very deeply on some thought the 'I' vanishes. Similarly when one is doing a creative thing and is very engrossed (deep thought) in it there is no 'I'. 'I' therefore comes in with shallow mind or when there is no deep thought the senses take over and give rise to 'I'. It is similar to saying that an empty mind is a devil's workshop. This is what is also written up in Patanjali Yoga.

**March 22, 2003**

The problem of form still has remained. I feel if all the senses at the time of death are not removed from the body then the body form remains. That can happen at the time of sudden death. Somehow the "structure" does not get time to resolve itself.

However with natural death the mind withdraws and that could be also the basis of pain during dying process. The ability of mind to remove itself from all the senses must be a very painful process and that too-suddenly.

However what is the nature of this form? How does it remain stable and for how long? What forces act upon it so that it again dissolves into "soul" to be born again? Is it possible that once it is in certain form it will again be born in the same species? Then keeping the form may be useful for the "soul".

**March 24, 2003**

*Nature of Pain:* The whole basis of Kundalini Yoga is to remove the sense organs inputs from various parts of the body. In medicine the pain blockers do the same. The main pain sensations come through the spinal chord and probably raising of Kundalini means blocking the pain centers progressively starting from the base and reaching to the top of the brain. Ramkrishna used to say that as he starts raising his Kundalini all his body goes through the process of locking itself so that he loses control of different parts. Probably this is what he meant.

**April 3, 2003**

In Upanishad there seems to be a definition of gravity. It is called Imperishable (Brahad aranyaka Upanishad. Pg. 237 - Radhakrishnan). All the attributes of gravity are shown as properties of Imperishable.

**April 4, 2003**

In Upanishad's and Brahma Sutras there is always the task of heart as the seat of the soul. And the "atma" is the size of a thumb. It is possible that heart, which has its own electrical activity and may be the reason that the ancients thought that it might produce a unique signature of self. Also the origin of

electrical signal is the mode at the top of right side of heart. Its shape is like a peanut and the size of a thumb. Could this be the origin of size of the "atma"? It is possible that each individual may have a unique higher dimensional structure emanating from heart. It could be heart signature? Structure in N-dimension.

### **April 11, 2003**

Anger and insecurity are related. Insecurity comes when the mind cannot make a film of the future and anger is a reaction mechanism to make it happen.

### **April 12, 2003**

As our material demands are met by technology, we should become happy. However happiness is the state of mind and when there are more choices it is not very easy to become happy because more insecurity is developed. Story of jackal and cat on how many ways to get away from tiger. As the number of choices increase it is difficult to come to conclusion since the brain has to process all of them leading to confusion and insecurity. Thus the old maxim of simple living and high thinking may held true even as we advance technologically. Though it is possible that as we advance technologically the choices themselves get resolved since the "processor" also will become big and will tell us in an instant which is the best choice.

### **April 17, 2003**

#### *Nature of Karma*

We all keep on saying that we are bound by our Karma and that each action we do there is going to be accountability. However I feel that as we start the process of actions we have a "core belief" which guides our actions. That is whether we will do them honestly, without hurting others etc. or we are going to do them without any scruples. Once that core belief is developed then all our actions take place accordingly. Also with time this core belief also gets reinforced and becomes stronger and stronger i.e. our actions then become almost premeditated. This process creates a certain "bent of mind", of each individual which then makes each of us act in certain manner in all our dealings. Also this mind develops a certain personality and this personality or all sum of actions then probably guides our soul after death. Thus with Yoga this "bent of mind" can be rectified or changed so that sum of actions can be modified. This is what are taught in Patanjali Yoga and other creeds of Yoga.

However as we grow older our brains are not so supple as when we are younger and hence the changing of neuron networks becomes difficult. Thus it is better to mold our thinking during our young age.

### **April 22, 2003**

What happens to all the information that a person learns during his/her lifetime after his/her death?

1. Information generation is an evolutionary process. There is a possibility that all the information we develop has a counter part in the higher dimensional space. How does it go there is still not clear? Thus the old saying that all our actions may come to haunt us may mean that the information is never lost. It is always in knowledge space.
2. The soul passing from one body to another carries the basic memory only. Once it gets into a new body it can access the information from knowledge space. This makes more sense energy wise

since it will be difficult for the transfer of soul from one body to other if large amount of memory is attached to it.

3. The knowledge produced is always in the knowledge space and it continues to increase. It is never reduced. All the activities we undertake whether good or bad goes into the knowledge space. This space is filled with knowledge from all over the Universe.
4. The knowledge space is of two types. One that stays with earth or other livable planet. This includes the books, memories, other materials and the "atmosphere" of the earth or planet. This space goes with the earth and earthlings can dip into it to get the knowledge so that the evolution of mankind takes place continuously. The other space (knowledge space) is the Universe and as the earth passes through the pockets of knowledge we produce quantum jumps in our knowledge. The knowledge in this space is there because of actions of advanced civilizations.
5. Hence getting a human body is extremely important in evolving of knowledge etc. If the soul goes into other life forms then the knowledge accumulation is stopped or it is a retrograde step.
6. If we take the above point of view then it is everyone's responsibility to do work for good of mankind. This will help the total knowledge of world to increase.

### **May 15, 2003**

Things of beauty are joy forever (Keats?)

1. We should enjoy all the beauty and great things with a childlike curiosity.
2. If we consider all of us as travelers who have come to this world for a short visit then it will help make this world a better place because we will enjoy the good things and mostly do "window shopping".
3. However that will not help increase the total knowledge of this world. A better solution is web of love (my article).

### **May 26, 2003**

Can matter be created by higher dimensional thought only? Is it possible for the thought to first produce the template in higher dimensional space and then the matter crystallizes in four-dimensional space - time continuum? It could be a weird concept.

### **June 14, 2003**

The above should be possible by principle of equivalence. Since matter and thought can interact hence it might be possible for them to have a similar characteristics.

Also gravity is a force created by mass. Similarly thought which is like gravitational mass should be able to bend space-time continuum in higher space.



### **June 19, 2003**

The human body is the most important thing we can possess. Not only it is useful to our living and carrying various functions but it is the instrument which gives us our 'I' or knowledge of self. It is only through the human body that the soul or atma enjoys the world and experiences it. Also nature uses everything in a multipurpose way. Thus the body may also act as an antenna for higher dimensional thought besides doing its usual work.

Thus our identity comes from our body and its senses. Hence in death that identity goes away and with it the memory. Thus what is transferred is the essence of work or deeds. In what way it is transferred?

There is a possibility that as the body starts getting higher dimensional thought then it starts radiating an aura. This could be the basis of "magnetic personality" that is normally associated with spiritual leaders. This is also what is written in Patanjali Yoga Darshan.

### **July 9, 2003**

It is possible that as the mind becomes powerful it can access and process any weak signal. Thus when we say that I can read and sense about an event which has happened a long distance away, it could be possible because of my mind's ability to process a very weak signal. An ordinary brain may not be able to do so. This may help explain the transfer and receipt of thought without recourse to the process of higher dimensional space mathematics. This is similar to producing a very powerful telescope, which can get signals from very large distances in space.

### **July 30, 2003**

Why are all life forms afraid of death? Most are wired in such a way so that they are afraid of losing their form. Thus the geometric form is extremely important to the survival of species. If soul can exist without body then we should not be afraid of death but the form, which helps us to give 'I' is very afraid of losing its identity. This fear gives the fear of death. Thus keeping the identity is the most important attribute of life. That is what is called Maya, which plays such an important role in the dynamics of soul transfer.

Continuing on the theme of 9/7/03. How does a non-living entity send the signal? I think the very act of its existence displaces the space and this signal remains. Thus in higher dimensional space the signal is geometric in nature with no time built in. Hence the form becomes extremely important for a living/non-living thing. It is this form that our brains can sense since a powerful brain can process the signal from space.

### **August 6, 2003**

Two interesting articles came in Scientific American (August 2003 issue).

1. Cerebellum is as important as main brain in lots of functions, especially in spatial and other feelings. Could it be the cause of hair standing at the neck when sensing danger?
2. Our 4D world could be a hologram of a flat reality! We have written on it many times before.

### **September 20, 2003**

An interesting article in Scientific American in September 2003 entitled "Brain, Repair Yourself", shows that most of the new neurons are found in the olfactory bulbs. Is it the genesis of pranayam? Also one

can produce new neurons which is what Yogi's have always claimed is the basis of Yoga. The removal of Sansakaras could be removal of old neurons and pathways.

### **October 26, 2003**

One of the advantages of nimble brain is that it gets satisfied with very little information. This helps in satiating the desire and hence helps the person to move on. The reason for this is that the nimble brain has tremendous processing power and hence a small amount of information is processed very efficiently thereby satisfying the desire.

What is the physiological basis of desire ?

### **November 22, 2003**

In New Scientists (25 Oct. 2003) the following is written about some of the new star birth.

"The moment these stars are conceived, they are destined to be swallowed whole - baby block holes eaten by their own mother". This is exactly what Ramkrishna saw when he explained that beautiful women gave birth to a child and immediately ate it after birth. He explained this is birth and death of universe ! What a coincidence!.

### **February 13, 2004**

#### *Karma revisited*

All of us as individuals have our destiny in our hands. That is the law of Karma. We can make whatever we want of our lives. Yes we are guided in taking up opportunity by our mental makeup, which includes our genetic makeup. However as a humanity we are like a "strange attractor". Thus humanity as a whole follows a certain path of evolution and as small individual "molecules" we can have an independent path but we are attracted to the general flow and that is overall evolution.

### **May 5, 2004**

New evidence (New Scientist 17 April 2004) suggest that we can wipe our memories by drugs.

### **May 10, 2004**

Deep thought and emotions produce memory spaces in higher dimensional space. These spaces interact with those produced by other minds that we interact. This produces a web of attachment in higher dimensional space.

### **November 17, 2004**

Today outsourcing is becoming a big issue. It is creating conflicts and has the potential of unraveling the great gains achieved by modern technology like internet etc.

However with ever increasing human ingenuity it provides a great scope for a new development. This will be to copy nature in manufacturing. Nature does it by using basic raw materials of gases (O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>, etc.) and other materials and produces structures like trees and fantastically complicated machines like humans etc.

Thus in coming years we will also produce machines from multipurpose factories in one place using different raw materials. The energy cost associated with outsourcing (mostly in transportation) will be reduced. What will not reduce is the flow of knowledge and information, which to my mind will increase with leaps and bounds. This is the precursor of democracy all over the world. Thus the local production will be guided by global knowledge.

### **November 20, 2004**

The human thought interaction (transmission and reception) is a function of brain quality and external thought. Nimble brain allows tremendous churning of thought and ideas so that the brain can produce a deep thought. Once the brain becomes nimble it can process the data from external thought. For most people since the brain quality is not high hence they cannot accept external thought packets. With hard work one can make the brain very active and receptive.

The most important thing for a living entity is to enjoy life. By life enjoyment we mean maximum absorption of information and knowledge. Probably the information overload is a direct consequence of enjoyment. Maybe that will help the brain to process more and more. As somebody said the best idea comes only to those people who have maximum number of ideas.

### **November 28, 2004**

Enjoyment as a route to Nirvana.

1. All senses are working at full blast.
2. Deep thought happens as part of enjoyment.
3. Need to get away from fickleness.
4. Whole basis of life is happiness and enjoyment.
5. Then why renunciation? I have a feeling that getting away from enjoyment and sense pleasures was advised because ultimately all of them lead to sex and with it there is loss of chemicals and energy, which the ancients could not recoup with existing drugs and eventually this loss produced memory less and inability to produce deep thought.
6. However if we can produce continuous enjoyment and happiness there it is a Bhavya Samadhi.
7. Naturally physical energy has to be maintained for this continuous enjoyment.

### **December 15, 2004**

Nature of human bond. Might also throw light on Karma.

1. Interaction of humans with each other and with other forms of life means sending and recovering thought packets.
2. These thought packets effect the brain. The stronger is the signal the stronger is the memory of the signal. The strong memory then creates neural pathways on how the brain works. That is the genesis of human bond and Karma.
3. Thus thinking badly or negatively about others means that we will get thought packets from that person's brain, which forms a basis of human bond.
4. This human bond is the basis of Karma. Thus karma is nothing else but memories formed by internal and external thoughts.

5. Thus the strong emotions like love of mother and child and lovers makes the brain tuned to each other's thought packets. This is the Karma.
6. One of the ways of reducing this karma is what Patanjali has advised " compassion for the unfortunate and indifference to wicked, etc".

### **January 19, 2005**

Aurobindo Ghosh maintained that the origin of thoughts was from outside agencies. He perceived them as such (based upon the teachings of his Guru Vishnu Bhaskar Lele). He said that calming his mind completely helped him see the thoughts coming as packets from outside agency and he could banish them and hence got rid of their influence. The main thing was the complete stillness of mind. This is the same thing discussed by Patanjali when he says that "Just as pure crystal takes color from the objects which is nearest to it, so the mind when it is cleared of thought waves, achieves sameness or identity with the object of its concentration".

### **June 8, 2005**

#### Karma and human thought web (revisited)

Once a memory of the living being is setup in the brain, it can access this memory and send the thought packets to the concerned entity. Similar is the case for the receptor of these thought packets. This exchange of thought packets creates a web or human bondage. The breakup of this web and in turn the human bondage can only take place when the memories are removed. This is possible with Sanyam.

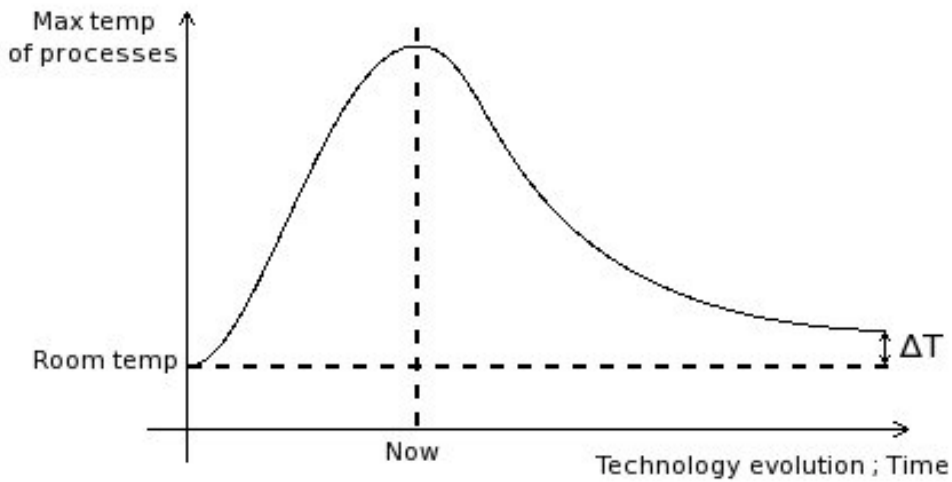
Also the intense memories create even stronger web. This is the cause of great attachment to our near and dear ones. If these memories have to be sublimated for salvation from rebirth cycle then it should be done when we are young since the power of brain to remove them is strong.

### **July 11, 2005**

We again come back to heart or "love" signature. What we learn from ECG is simply the sum of all cells firing. I feel it might be possible to have a unique signature of heart under emotional impact. Similar signatures may come from the guts also. This is an extension of our work on thought hologram. Mankind has known all along that emotions come from heart and feeling sometimes comes from guts. How many cells fire to produce these feelings? Thought on the other hand comes from brain.

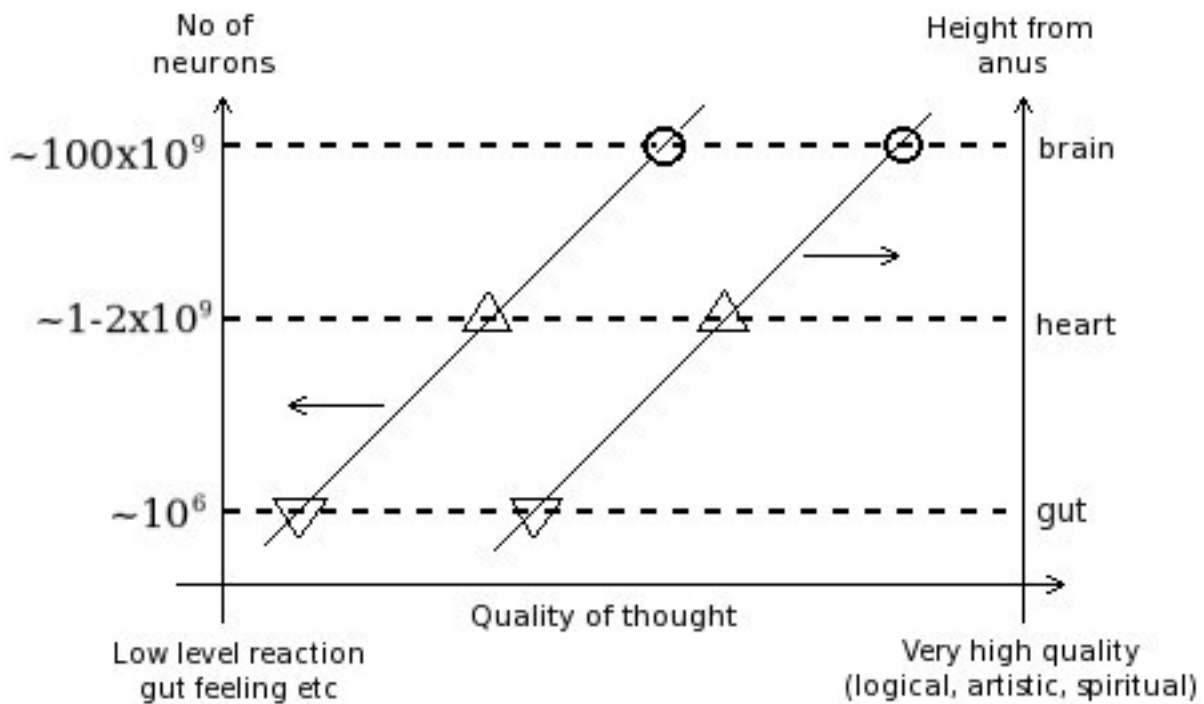
October 9, 2005

Our world will become fully evolved when all our process will take place nearly at room temperatures.



November 11, 2005

Gut feeling revisited.

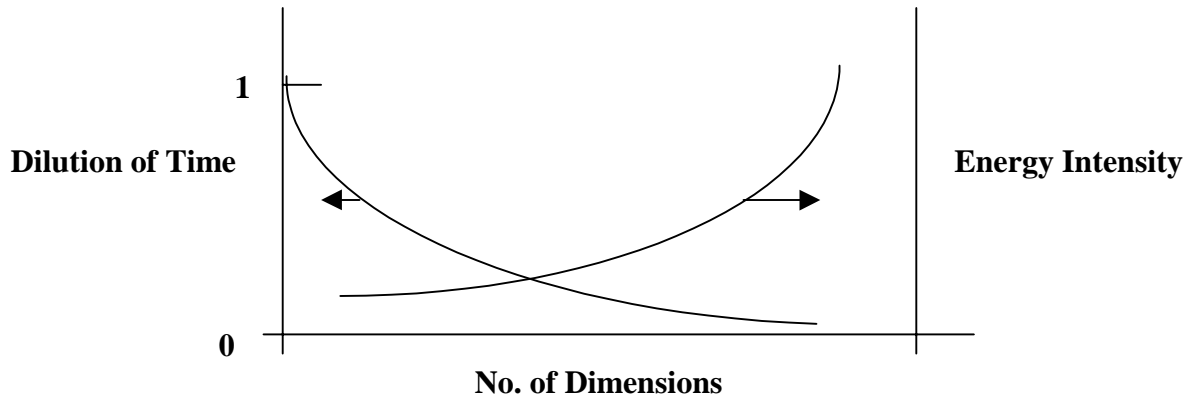


As the number of neurons reduces so is the quality of decision making. Hence gut signature is simply gut feeling with no explanation. With heart, which has much larger number of neurons there, is still

predominance of feeling. I have a feeling that there is a mind/heart unified signature, which gives us a general experience of feelings. If the gut feeling is also synchronized with this signature then the whole system can tune to universal forces for very deep and total happiness.

**February 2, 2006**

Is the fifth dimension because of four dimensions ? And all higher dimensions are derivatives or is it the other way round ? A scheme may look as follows



Thus at higher dimensions time and space intermingle freely while as the dimensions start reducing time starts becoming "rigid". In fact time seems to be a unique dimension which always moves. Why is it so?

**March 15, 2006**

*Nature of heart*

1. It starts beating at 1 month in the fetus and is the first thing in the body, which shows sign of life. When it stops beating death takes place.
2. In all religions and societies heart is the center of spirituality. In Katha Upanishad the Purusha - the size of thumb, resides in the heart.
3. There are  $\sim 2 \times 10^9$  muscle cells in heart compared to  $\sim 100$  billion neurons in brain ( From "Recent Advances in Studies on Cardiac Structures and Metabolism", Alder CP and Costabel U. 1975 : 6 : 343-55). Similarly here are couple of million nerve cells in guts. Hence our original idea of number of cells in brain, heart and gut is correct.

**May 8, 2006**

In the evolutionary process, I think the body was designed to carry the brain and not the other way round. Thus a certain body characteristics could induce a large changes in the brain size and other characteristics. This is also in the line of thinking that the evolution goal is to continue increasing the "processor" still it becomes GOD as shown in my evolutionary diagram earlier.

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