

## 2. Deep Thought in Higher Dimensional Space

(From the book "Nature of Human Thought")

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As we have seen in chapter 1 it is quite possible that the deep thought is a stable structure and may exist in a higher dimensional space-time fabric. We still do not know the nature of this space, but can conjecture on a general picture of what its attributes are.

Our world that we see and feel is four-dimensional (three dimensions of space and one of time). However, theoretical physicists have recently suggested that there could be 10 dimensions of space and one of time to make our universe 11-dimensional<sup>19</sup>. Cosmologists and physicists invoke these extra seven dimensions in order to relate electromagnetic, nuclear and other forces with the all-pervasive gravity field. Unfortunately we cannot see these higher dimensions but at best can conceptualize them through higher mathematics. Interestingly our present universe has only 4% ordinary matter and the rest 96 % consists of "dark matter" and "dark energy" which we cannot see and know very little about. It is quite possible that this energy and matter exists in higher dimensional space<sup>20</sup>.

Nevertheless an interesting aspect of higher dimensional reality could be that a being residing in it will be able to predict events of our four dimensional world since he/she will have a "better view"<sup>19(b)</sup>. Some yogis get this power of clairvoyance through *Sanyam*.

Since Universal Consciousness is even more ancient and pervasive than gravity, it is quite possible that our universe may be multi-dimensional and substantial part of it exists in higher dimensions. It is also possible that the four-dimensional space-time continuum, which we can visualize and feel, could be a "crystallization" or "shadow" of multi-dimensional reality. In Bhagwat Gita Lord Krishna showed Arjun the "Virat" form (*Virat* means huge) or the birth of cosmos<sup>21</sup>. The description of "Virat" form is very similar to that of destruction of matter by a black hole! However for Arjun to see this form Lord Krishna gave him a divine vision since with the existing vision it was not possible to show him the multi-dimensional reality. Maybe for us it might not be possible to see the higher dimensions till we leave the present four-dimensional world.

The four-dimensional space-time continuum is slightly flexible and thus it can be bent by massive bodies. This is the consequence of geometric nature of gravity. The bending of this continuum results in deflection of light when it passes near these bodies. Einstein predicted this bending of light in his famous paper on General Theory of Relativity published in 1915. This prediction was confirmed experimentally in 1919 by the British physicist Arthur Eddington when he showed that the light from a distant star bent as it passed the sun during the total solar eclipse<sup>22</sup>. As the space dimensions increase and become greater than three, it is possible that the rigidity of space also increases and it is this rigidity that we are interested in looking at for our deep thought.

One aspect of this rigid space is that the loss of information from a signal is very little. In the existing four-dimensional space-time world the attenuation of signal is via  $1/d^2$  law i.e. the signal strength reduces from the source by inverse of distance squared<sup>23</sup>. As the space dimensions increase and the space gets rigid the signal attenuation may follow the path as shown in Fig. 2. With increasing rigidity the velocity of signal also increases and in higher dimensions it could be many times the velocity of light.

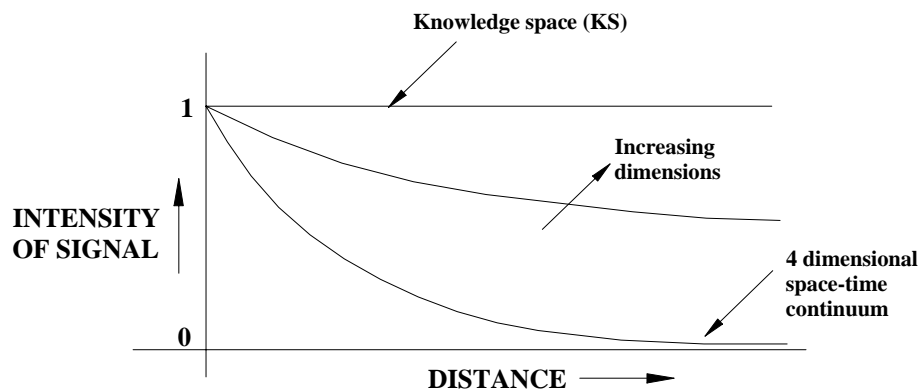


Fig. 2. Rigidity of Space

### *Knowledge Space*

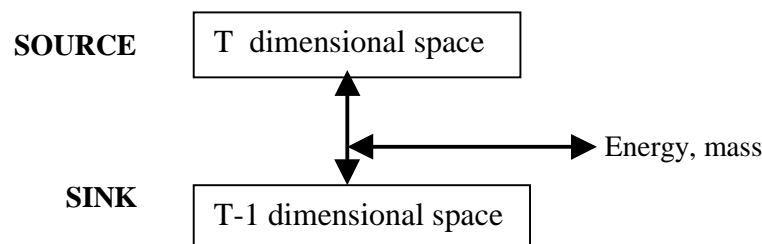
Since the signal loss is reduced drastically in higher dimensions, it is possible that **this space may contain structures or memories**, which are very stable, and thus an information or knowledge structure will remain there forever. I think a deep thought structure, which is geometric in nature, occupies this space. We can call this space as **knowledge space (KS)** and it may contain fundamental knowledge produced in the past and is continuously fed by the ever-increasing knowledge from various civilizations. A prepared and focussed human mind can

access knowledge from this space and I feel that great discoveries of mankind have come from such access. It is also possible that as earth moves around the sun and the solar system revolves around the center of the Milky Way galaxy, periodically we come across KS, which helps mankind to evolve<sup>24</sup>. Similarly a younger civilization than ours may come across KS developed by us and thus the evolution continues.

The movement of earth and the sun around the Milky Way galaxy is time-dependent (it takes about 226 million years for the solar system to make one round of the Milky Way galaxy) and so is earth's encounter with KS. Thus our discoveries are time-dependent and not person-dependent. Any prepared mind encountering the KS at a particular time can get that knowledge. There are many instances in the history of mankind when quite a number of people had similar ideas and thoughts at about the same time. Prepared minds encountering KS react in the same manner. Interestingly this also raises the possibility that there may be knowledge cycles, since the movement of earth in space is cyclic. We are not sure what may be the period of such cycles, but in ancient texts there are references that it may be anywhere from few hundred to tens of thousands of years. Periodic appearance of great souls on this planet earth may be an outcome of these cycles<sup>25</sup>.

### ***Thought Engine and Production of Matter***

The transformation of one space-dimension into another can take place via a “thought engine”. This is similar to a reversible heat-engine, where energy flows from higher temperature (source) to lower temperature (sink) and in doing so the engine produces work<sup>26</sup>. Similarly, in the “thought-engine” when a certain dimensional space transforms into a lower-dimensional space, energy or mass comes out. Similarly by application of energy and mass, a lower-dimensional space can be transformed into a higher-dimensional space. The transformation from one space-dimension to other is via a quantum jump and hence is not a continuous transition<sup>27</sup>. Fig. 3 shows a concept of thought engine.



**Fig. 3. Concept of a reversible “Thought Engine”**

If we take this analogy further, then we can conjecture that at the highest space dimensional transformation, even the time gets sucked in and only space remains. This is a novel concept showing that time can be introduced and removed from the universe and hence the total time in universe is constant. We will talk in detail about it in the chapter on Time. Maybe the final dimension (which we can call 'G') is GOD. Probably it is 'Akash' (Sanskrit word for space) or the final entity as discussed by the ancient Indian philosopher Adi Shankaracharya in his famous book Vivekachudamani<sup>28</sup>. This 'G' space has always existed with no past, present or future. Since time is used (sucked in) for transforming lower dimensions into ultimate 'G' dimensional space, it is equivalent to energy and since it devolves into ultimate space, it may have geometric properties. Thus it is possible that **TIME  $\Leftrightarrow$  ENERGY  $\Leftrightarrow$  SPACE**. Since time is the last thing to devolve, it is possible that our present world may have time dimensions. We are not sure what those dimensions are.

Thought engine also provides a possibility of annihilation and production of matter. This could be a mechanism by which some Yogis claim to produce material from thin air and could explain the poltergeist phenomenon!<sup>29</sup> **It also opens up a possibility of higher dimension-space based form-templates being transformed into matter and hence creation of completely new designs and inventions.** Similarly thought engine also provides a mechanism by which personal consciousness is connected to Universal Consciousness since we can reach space 'G' through deep thought. Thus deep thought, matter, space, time and Universal Consciousness are all related. With this relationship it may be possible to find out how we can get Universal knowledge.

### ***Gaining Knowledge via Thought Packets***

There are two types of knowledge – one is incremental and the other is a quantum jump in our understanding of the world and its working. An example of the former is the incremental improvement in chip-making process. A large army of workers all over the world is working step by step in improving the efficiency of this process, so that an increasingly larger number of chips could be put in a small space. Production of a silicon-based transistor by Shockly and his team in early 1950s at the Bell Labs in U.S.A. was an example of quantum jump in knowledge<sup>30</sup>. It allowed mankind to move away from vacuum tube-based diodes to solid state electronics and ushered in the modern computer age. Similarly Einstein's theory of relativity, Darwin's evolutionary theory or Newton's gravitational theory are other examples of quantum jump in our understanding of how our universe is structured. Such quantum jumps in knowledge in any field,

whether spiritual, technological or scientific helps in mankind's evolution and give a direction and purpose to it.

The higher-dimensional thought analysis together with Patanjali Yoga may help us understand how the “quantum jump” knowledge is perceived by prepared minds. With tremendous focus and concentration, the prepared mind produces a large number of possible solutions to a problem being explored. This churning of information stored in the brain creates a template of information, which is checked continuously with the object of perception. With *Sanyam*, the mind is able to focus on a particular thought for a very long time till the continuously modified template eventually matches the object in a lock and key-type interaction leading to knowledge. This template or thought packet actively interacts with the object of perception via higher dimensional space and can perceive any knowledge in the universe.

Some Yogis have claimed that they can see packets of thoughts as they come to them from external sources. This could be the basis of mind reading capabilities possessed by them. A powerful brain can therefore become a very powerful processor and hence can extract useful information from weakest of thought packets. Similarly there are claims by some mediums that they can tell the history of a person by touching and contemplating on some of the physical objects associated with him/her<sup>29</sup>. Sometimes these techniques have been employed in solving difficult murder cases. It seems that the template of the object together with the strong emotional memories attached to it may exist in higher dimensional space and with deep thought the medium is able to extract that information.

Thinking deeply is a two way street. We can send thought packets as well as receive them whenever our minds are anchored to the object of perception. In fact the very act of perception means that the information packets from the object of perception will be received. The same applies to thinking about somebody. Hence one should not think negatively about others even if they have harmed us because the very act of thinking about a negative person brings his/her negativity to our mind.

### ***Sensing Thought Signals***

There are innumerable recorded instances where ordinary people have been able to sense danger or suddenly sense about their loved ones from quite a distance away<sup>29</sup>. We normally call it sixth sense. This could be a mechanism by which intense thought packets concerning the particular person are received by his/her brain and it is forced to process them in a lock and key type arrangement to get the necessary information. Somehow it seems the brain is hardwired more favorably for receiving strong emotional signals from the loved ones.

Sometimes the sensing of danger signals also makes the hair at the neck stand up. Many people especially big game hunters have reported this as a sign of imminent danger. Similarly standing of body hair or goose pimples happen when one feels tremendous emotions<sup>21</sup>. This reaction to danger is also manifested in most animals. Sociobiologists give an explanation that all animals do this to puff up so that they can increase their size and scare the pursuer. I however feel that hair acts as antenna for danger signal so that the body's sensitivity to it is increased. This enhanced signal via the body's surface helps the brain to react rapidly and before the manifestation of actual event.

A powerful brain can also become very sensitive to outside signals. Such a sensitive brain can identify itself with any idea or object in the world. For example, once Shri Ramkrishna - a famous Indian saint, while in a heightened state of awareness, identified himself with the grass in the lawn in front of his room and felt a tremendous pain in his chest when he saw somebody walking on the grass<sup>31</sup>.

It is also possible that when we get profound knowledge then it affects the body since energy is released during the transformation of higher dimensional thought to that of lower dimensions. It has been known throughout the history of mankind that people who possessed great knowledge like Yogis or spiritual and intellectual leaders had an aura, radiance or personality around them. It seems the energy release via thought engine helps in aura production. Patanjali alludes to this concept in his book when he says that as a Yogi progresses on his path to knowledge the body gets beauty, grace and strength with the hardness of thunderbolt<sup>32</sup>. This change in body and personality positively affects people who come in contact with the enlightened soul and has a positive cascading effect. Thus the personal evolution towards enlightenment is the best way to transform the world rather than imposing our arrogance and will on a large number of people.

It can also be conjectured that as our minds are the products of the same time frame as the Universe, we cannot think beyond what already exists in it. At best we can discover the already existing truths. Even the products of our wildest dreams and imaginations could be the outcome of knowledge and templates, which exist in KS somewhere in the Universe. A powerful mind via the thought engine helps us to discover it. We should therefore try to inculcate the habit of imagination in our children so that it is easy for them to create a powerful mind. This will help the society to evolve faster.

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