

Title of the Paper : God is all pervading energy

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God is all pervading energy

Introduction

Who is God? The creator who has created this creation which is perceived by all of us in one way or the other is God. Is he present everywhere? I repeat is the creator present everywhere? The answer to this question is a simple Yes. He is all pervading. He is present everywhere. Is he present as all pervading energy? The answer to this question also is a simple Yes. He is present everywhere as energy. Can I support these statements with proof, scientific proof? Yes. The statements will be supported here below with absolute scientific proof drawing on the knowledge we possess of school level Physics and Mathematics. The additional beauty of this Technical Paper is that it will draw on the spiritual knowledge of the east as enunciated in the Vedas and Guru Granth Sahib and using the same common scientific knowledge as well as school level Physics and Mathematics to reach the same conclusion that God is all pervading energy.

Visible Creation

Our visible creation is full of form. We are in a creation occupying space and time. How do we know that? Our teachers taught us in school. They told us we see in 3 dimensions of space. The dimensions are of length, breadth and height. Why do we

see in 3 dimensions of space? Again the school teachers told us since we have 2 eyes slightly spaced from each other we see in 3 dimensions of space. They told us if we keep 1 eye closed we actually see in only 2 dimensions of space. We checked it out and knew it was true. We were also taught the concept of time. We live in time they said. Was it natural time or artificial time? Was that time inside us or outside us? It was an artificially created time. This time was running outside of us. Time created by man to make this creation of ours orderly and systematic. Man devised instruments for measuring both space and time like the measuring tapes and time clocks. Therefore our visible creation is one of form and running in artificial time. We call it the Space Time Creation of Form.

Space and time are studied in Physics. We all know Physics is the study of the physical creation in an orderly or systematic manner of all facts pertaining to it. These facts are placed in a logical structured manner using mathematics to easily understand the truths of our physical creation. We will go a bit deeper now to have a better understanding.

Mapping matter

This whole creation therefore is 4 dimensional made of 3 dimensions of space (Length, breadth and height) and 1 dimension of time. This entire creation is made

up of matter. Each piece of matter has 3 dimensions of length, breadth and height. This each piece of matter changes with time as we all know that no matter is ever permanent. If we plot these 4 dimensions of space and time for the entire matter in creation on a graph paper we will have a mapping of each piece of matter on paper in the creation.

Matter is energy

Energy is matter in motion or having the inherent ability to generate motion. Therefore all forms of energy are associated with motion. Matter in motion is called Kinetic energy. Some examples are a speeding car, a revolving planet or a shooting star. Other form of energy is potential energy when matter has the internal ability to cause motion. Some examples could be the satellite up above the Earth, a dam holding water, a skier at the top of a hill. So the entire creation of matter is connected to a combination of Kinetic energy and potential energy. A nuclear bomb lying at a place has only potential energy. If it is being dropped from a plane it will have both potential and kinetic energies.

Energies like heat, chemical, human energy all fall into the combination of kinetic and potential energies. Why is it so? Because we live in a creation of space and time where everything moves and everything is placed relative to one another.

Therefore all matter irrespective of wherever it is placed in the creation and whether moving or stationary has energy. The energy could be kinetic or potential or a combination of the two. The graph paper above where we have a plot of all matter in the creation, the points wherever the matter is plotted is actually energy points. All matter is energy.

Waves as energy

What about the points in space where there is no matter? Let me tell you that there is no absolute vacuum in space. All points in space have some matter or subatomic particle (or wave). Say for instance, Light behaves both as a particle and a wave. Light is actually energy. It as per Physics is an electromagnetic wave. But it also behaves as a particle called photon. At subatomic levels we have dual nature of existence. Subatomic particles also behave as waves. Gravity too behaves as a wave and occupies the whole creation. There is no empty space in the creation. There is no space which can be called absolute vacuum. Therefore the mapping of all the matter of the creation on the graph paper has no single point in space time which has no energy. This whole creation has either matter or subatomic particles (or waves) and both have energy.

(Science-View I)

Therefore we have proved taking common scientific knowledge and school level Physics and Mathematics that the whole creation is pervaded with energy. No point in space time is without energy. God the creator of the creation therefore exists in this creation as all pervading energy.

Guru Nanak

Now let us look at God from the perspective of the scriptures from the East. We will see first what the Guru Granth Sahib says about God as experienced by Guru Nanak. Guru Nanak had travelled extensively in India and the Islamic countries of West Asia for nearly 20 years. His understanding of God was that the creator is a formless one. He called it Nirankar which means without form. He also called God as Onkar having the sound of Om. Om as per Hindu scriptures means the creator who has no form. Immediately after obtaining enlightenment Nanak wrote the Mul Mantra which describes God and the Sikhs recite it religiously to imbibe the true meaning of God. Let us read it with reverence as it is given below:

Ek Onkar

Satnam

Kartarpurukh

Nirbhav

Nirbhay

Akal Moorat

Ajyoni

Saheban

Guru Prasad

Jap

Adh Sach

Jugad Sach

Hai bhi Sach

Nanak Hosi bhi Sach

Guru Nanak describes God in this Mul Mantra. He describes him like this. There is only one God who is formless, truth is his name, he alone is the doer, he is fearless, he has no enmity towards anyone, he is eternal, beyond time, he is not born of the mother's womb, he is self existing. All this can only be understood if there is grace of the Guru towards his disciple. Recite he says that this has been eternally true, will ever be true, and is true today. Nanak further says this will remain true.

Formless Point

What does form less mean? It means there is no shape. That is the 3 dimensions of space do not exist. It means God has no length, no breadth and no height. Therefore our regular creation of 3 dimensions of space is shrunk into one of none. No space dimensions exist for him. He is formless. In mathematics our school

teacher will define it as a point. A point has no length, no breadth and no height. This was taught to us in geometry.

(Guru Nanak and Science-View II)

Now the space time mapping of the creation done on the graph paper, each point there represents the creator. The Creation mapping contains innumerable points to make the whole. This formless creator has potential energy that is why it is able to create a creation. Therefore each point in the space time mapping on the graph paper represents the creator as potential energy. Therefore energy is all pervading and this energy is actually God. Therefore once again using the scriptures we reach the conclusion that God is all pervading as energy.

Purnam Mantra

The Purnam Mantra from the Vedas, also called the Peace Mantras are recited at the beginning and end of religious discourses. We will see an interesting relation as expounded by the Vedas which seems to uncannily match with the Big Bang Theory of modern science on the origin of the creation. It will also show how the formless version of God and God existing in space time are connected.

Om Purnam-adah Purnam-idam

Purna-aat Purnam-udachyate

Purna-asya Purnam-adaya

Purnam-eva Vashishyate

OM Shanti Shanti Shantihi

(Poornam in Sanskrit refers to fullness, completeness or infinity. The verse talks about Om the formless state of the creator and says it will always remain unchanged.)

Meaning

Om! That is infinite and this creation is infinite

The infinite creation proceeds from the infinite Om

Then taking the infinitude of the creation out of the infinite Om

The Om remains as infinite alone

Let this Om be in peace, peace and peace

The Big Bang theory of science regarding the origin of creation points out that there was a big bang and in a split second temperatures rose to phenomenal levels and the first stage of this creation appeared. This happened probably about 83 billion years ago. Since then because of the intensity of the Big Bang the universe has been expanding and also cooling off with time. It gave rise to the chemical elements first and then to compounds and large forms of matter. Since that day the Creation has

been in a state of motion with no matter at rest. We were gifted with a creation which is perceived in space time by man due to the capabilities of his sense organs and perception abilities. The entire creation is inter connected with one another through micro and macro forces. It is an interdependent creation and all points in this creation are energized. There definitely was a cause to the creation. Some call it the causeless cause. This causeless cause is also addressed as God as it is only because of him the creation has come as a result of innumerable effects arising out of that causeless cause.

Science though advanced has still not been able to say what caused the Big Bang? What was the origin state before the Big Bang? But surprisingly the Poornam mantra seems to have an explanation. It says from the formless state called Om the formed Creation came. The formless state is just a point in space time but is infinite. Out of this Om even when the infinite creation gets formed it still has infiniteness within. Then the word peace appears in the last line. It says Om shanti shanti shanti. Does it mean when the the infinite creation comes out of the formless Om intense heat is created? Is that why the mantra mentions peace to bring down the heat?

(Vedas and Science View-III)

If God created the creation with a Big Bang, definitely all points in that creation experienced the bang. Bang represents energy. Therefore once again we see by a mix of scientific theory on origin of creation and our ancient Vedas that God is present as energy and is omnipresent in his creation.

Conclusion

In conclusion after looking at God and his creation from multiple viewpoints scientific and scriptural, new and ancient, using school level physics and mathematics we can firmly restate that God is all pervading as energy.