



Ultimate proof of energy theory of matter and cosmology: 'Theory of everything'

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Abstract

A new theory 'Theory of everything' is being proposed. This article should be sufficient proof for correctness of Energy Theory of Matter and Cosmology and besides the article disproves the Special Theory of Relativity, General Theory of Relativity and Big Bang Theory.

Keywords: Theory of everything, big-bang theory, Theory of Relativity, creation, Earth, Universe, origin

Introduction

Energy theory of matter and cosmology is destined to change the course of history of physics, philosophy and theology. In this article, sufficient proof for correctness of Energy Theory of Matter & Cosmology is provided and at the same time it disproves the Special Theory of Relativity, General Theory of Relativity and Big Bang Theory. I am of the opinion that latter theories have virtually blindfolded the physicists for about last one hundred years.

It is an admitted fact in physics that different theories, especially the General Theory of Relativity; are inconsistent, incompatible and contradictory at some fundamental level. Even Hans Ohanian and Steven Bryant pointed out the problems but the scientific community has not paid much attention to these claims. This article attempts to provide the theoretical, experimental and mathematical proof of Energy Theory of Matter & Cosmology. All the inconsistencies, incompatibility, and contradictions in physics are explained.

I would like to quote a statement of Einstein in *Annalen Physik* (1905) "...light is always propagated in empty space with a definite velocity 'c' which is independent of motion of emitting body.... the introduction of a luminiferous ether will be superfluous...." this one statement is equivalent to all of the Special Theory of Relativity and everything else like General Theory of Relativity, Big Bang Theory are just the consequences.

This article will prove this statement of Einstein to be absolutely wrong. The correct statement would be 'Light or electromagnetic radiation is always propagated in a medium; which in classical physics used to be called as ether and which in the advanced physics has been named as dark energy; with a definite velocity 'c' with respect to the medium of dark energy and electromagnetic radiation propagates at velocity 'c' irrespective of the motion and the observer'. This summarizes the basic concept of this article.

The total and only basis of relativity on which all the castles of Special Theory of Relativity, General Theory of Relativity and Big Bang Theory have been build is the Michelson-Morley experiment. This article will prove without any doubt that Michelson-Morley experiment was wrongly interpreted but in fact Michelson-Morley experiment confirms the existence of a medium, the ether what has been now named as the dark energy.

History of study of matter and cosmology

In the history of study of matter and cosmology following are the names of some of the philosophers and scientists whose ideas and theories of matter & cosmology had considerable impact over considerable periods of time and whose works will be of help in realizing the factual position.

1. Aristotle
2. Algazel & Averroes
3. Newton
4. Maxwell & De Broglie
5. Einstein

It was Aristotle who defined the basic premises under which matter and cosmology could be studied. Aristotle's point of view was that the universe is finite with absolute space, geo-centric with eternity of matter and time. His point of view was based on reason and observation. At that time, Aristotle was right (though scientifically and logically wrong as on now) because there was no other acceptable alternative philosophy. Though there were several logical drawbacks with the Aristotle's philosophy of matter and cosmology (Greek philosophy) which stands adequately described by Algazel in his book 'The Incoherence of the philosophers'. Algazel's view point can

be summarized mathematically as $\sum_{n=1}^n X_n \neq \infty$

Where X is anything which could be expressed in discrete quantity which would include time, space and mass and 'n' is any definite number; one should bear in mind that infinity is not a definite number. Since Algazel had no alternative philosophy of matter and cosmology; though he was logically correct; he was countered by Averroes rather harshly.

Newton made the basic contribution and opened up the doors for proper scientific experimentation and verification. Maxwell and De Broglie have made contributions which helped in understanding the radiation and particles/atoms.

The actual scientific experimentation for study of matter and cosmology started in the nineteenth century and the final turning point was in the year 1905 when the formula $E=mc^2$ was theoretically derived by Einstein. Philosophically it was a great turning point as the Greek concept of eternity of matter was demolished. Scientifically it has made negative contribution to physics, philosophy and theology.



It would be worthwhile to mention here that in classical physics also the relationship of $E=mc^2$ was derived in the ether theories of Electromagnetic Dynamics & Thermodynamics. The value of k varies from one physicist to another and to name a few of the physicists:

Nikolay Umov (1873); Tolver Preston; Olinto De Pretto (1903); Max Abraham (1902); Friedrich Hasenohrl (1904)

All the above physicists had derived the relationship theoretically but Einstein derived the formula $E = mc^2$ on the basis of Special Theory of Relativity which had the support of Michelson-Morley Experiment.

Ultimate proof of failure of Big Bang theory

Michelson and Morley initially conducted the experiment in 1881 and subsequently repeated the experiment in 1887 and it is on the basis of this experiment, Einstein put forward his Special Theory of Relativity and derived the formula $E=mc^2$. Before the formula was formally derived, Einstein had deduced that mass of the object is a measure of its energy content on the basis of invariability of velocity of light irrespective of relative motion of source of light and observer and Doppler Effect.

It is an established fact in classical physics that all wave-motions propagate in some medium and without the medium the wave-motions (which include light or electromagnetic radiation) cannot propagate. It was presumed that space contains the ether; the unknown medium; in which electromagnetic radiations propagate. The Doppler Effect is also presumed logically due to presence of the medium and in respect of sound Doppler Effect is explainable whereas with relativity without the medium it is a strange phenomenon which cannot be explained.

With this background let us presume that the universe and so the solar system is in the ether. Since earth has rotational and revolutionary motion; it is impossible that earth could be at rest with respect to the ether excepting under the condition that the universe is geo-centric and the ether is dragged by earth in the rotational and revolutionary motion for which there is negligible probability and for which there is experimental evidence which need not be discussed.

There is no need of writing the instrumental arrangement, methodology and terminology involved in the Michelson-Morley experiment. There is sufficient literature available regarding the Michelson-Morley experiment and I have deliberate purpose of not writing these details because readers of the article would at least read this experiment and realize that a simple mistake has resulted in wastage of one hundred years of advantage of research in the field of physics. The theoretical and mathematical aspect of this experiment is touched upon.

Earth and the ether are in relative motion whatever the relative motion of sun and the earth is. The experiment will be discussed in a different manner than described in the literature and by the authors of the experiment. We need not describe the experiment on the basis of seasons or positions with respect to earth as we shall see.

Describing the experiment under two conditions would generalize the results for every possible place on the earth

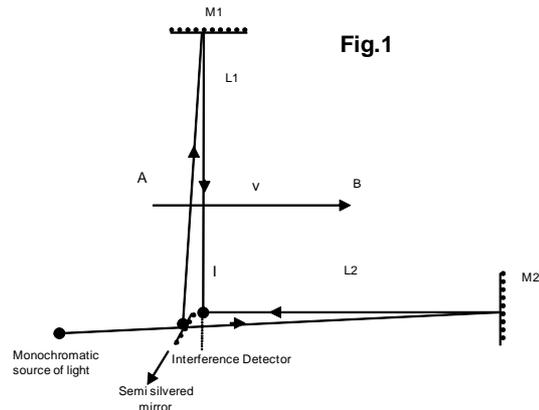


Fig.1

and every possible day of the year. The experimental layout is given in Fig. 1 & 2.

Consider the Fig.1 wherein the relative motion of ether and the instrument (earth) is in the direction of A to B at a velocity 'v'. This means that the relative motion of the ether is perpendicular to arm 'L₁' and along the arm 'L₂'

Now since along the arm 'L₁' light is travelling with velocity 'c' and the relative motion of arm 'L₁' with respect to ether being perpendicular; so the time period which the light pulse will take to reach back at point 'I'

$$t_1 = 2 \frac{l}{c} \dots\dots\dots 1$$

Since we have to analyze the experiment by measuring the fringe shift so we have to take into account the waves which would fill the arm while going and coming back to point 'I'. We will consider the total number of waves which would fill the arm 'L₁' if 'c' is the velocity, "λ" the wavelength and 'f' the frequency of the waves per second of the light in the ether.

Then total number of waves 'W₁' which would fill the arm 'L₁' is

$$W_1 = 2 \frac{l}{\lambda} \dots\dots\dots 2$$

Now let us take the arm 'L₂'. Since in respect of the arm 'L₂' there is relative motion of the ether and the movement of light along the arm 'L₂' Doppler Effect will be called into play and the light will be blue shifted while the light is travelling from semi-silvered mirror to the reflecting mirror 'M₂' and light will be red-shifted while light is travelling from mirror 'M₂' to the point 'I'; the place of detection of fringe shift.

So the number of waves 'W₂' which will fill the arm 'L₂' while the light is travelling from semi-silvered mirror to 'M₂' is

$$W'_2 = \frac{l}{\lambda} (1 + \frac{v}{c}) \dots\dots\dots 3$$

Here $(1 + \frac{v}{c})$ is the Doppler factor for blue shifting

Similarly the number of waves 'W₂' which will fill the arm 'L₂' while the light moves from mirror 'M₂' to the point 'I'.

$$W''_2 = \frac{l}{\lambda} (1 - \frac{v}{c}) \dots\dots\dots 4$$

The factor $(1 - \frac{v}{c})$ here is the Doppler factor for red shifting

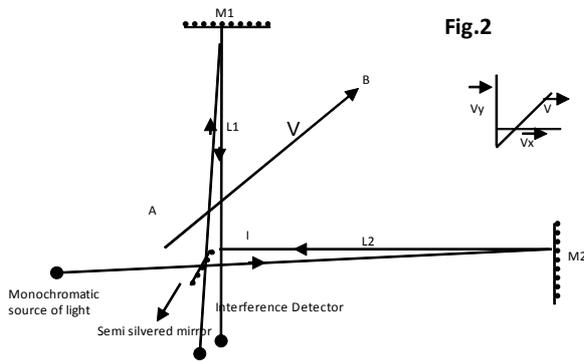


Fig.2

Thus total number of waves 'W₂' which will fill the arm 'L₂' is

$$W_2 = W'_2 + W''_2 = \frac{l}{\lambda} \left(1 + \frac{v}{c}\right) + \frac{l}{\lambda} \left(1 - \frac{v}{c}\right)$$

$$W_2 = \frac{l}{\lambda} \left(1 + \frac{v}{c} + 1 - \frac{v}{c}\right)$$

$$W_2 = 2 \frac{l}{\lambda} \dots\dots\dots 5$$

Comparing the number of waves in the equation 2 and 5 The number of waves is exactly the same; so the question of detection of any fringe shift when the position of arms 'L₁' and 'L₂' are exchanged or anything changed about the position of the interferometer, does not arise. Thus the presence of 'ether' is rather confirmed by the result of Michelson-Morley experiment.

Let us analyze the position of the experiment as shown in figure 2. In this position let the relative motion of instrument and the ether be any direction from A to B with the velocity V. The velocity V could be in this case, broken in the vertical and horizontal components.

$$\vec{V} = \vec{V}_x + \vec{V}_y$$

Where $|\vec{V}|^2 = |\vec{V}_x|^2 + |\vec{V}_y|^2$

The formulae in respect of this position and situation of the experiment are as under. The number of waves in arm 'L₁' while the light is travelling from source to mirror 'M₁' is

$$W'_{L1} = \frac{l}{\lambda} \left(1 + \frac{v_x}{c}\right) \dots\dots\dots 6$$

The number of waves in arm 'L₁' while the light is travelling from mirror 'M₁' to point 'I' is

$$W''_{L2} = \frac{l}{\lambda} \left(1 - \frac{v_x}{c}\right) \dots\dots\dots 7$$

$$W'_{L1} + W''_{L2} = W_{L1}$$

W_{L1} is the total number of waves in the arm L₁

$$W_{L1} = \frac{l}{\lambda} \left(1 + \frac{v_x}{c}\right) + \frac{l}{\lambda} \left(1 - \frac{v_x}{c}\right) \dots\dots\dots 8$$

$$W_{L1} = 2 \frac{l}{\lambda}$$

Similarly the formula - 8 as applicable in respect of arm L₂ would be

$$W_{L2} = \frac{l}{\lambda} \left(1 + \frac{v_y}{c}\right) + \frac{l}{\lambda} \left(1 - \frac{v_y}{c}\right) \dots\dots\dots 9$$

$$W_{L2} = 2 \frac{l}{\lambda}$$

The Michelson-Morley experiment has been repeated since 1887; and even at present also this experiment with the most sophisticated instruments with highest possible resolution is being repeated. But the 'null' result is

confirmed again and again. Presently the experiments are being repeated with lasers, which can traverse kilometers, with highest possible precision and reduction of anisotropy of the monochromatic light to an unimaginable level but result is the same 'null'. Since this is mathematically and theoretically proved, so whatever the resolution and precision in the generations to follow the final outcome has to be 'null' result. Thus, the existence of the ether is absolutely confirmed and accordingly the dark energy; present name of ether; which is a hypothesis as on date has to be the medium in which the electromagnetic radiation propagates. Thus Michelson-Morley experiment is the experimental proof of existence of dark energy.

However there is negligible shift in the wavelength of the light which reaches the interferometer after being reflected by the two mirrors in the arms of the Michelson and Morley instrument due to the Doppler Effect. It is due to this negligible shift of wavelength the Michelson - Morely experiment detects some negligible interference

Finally Michelson - Morley experiment is the experimental proof of existence of dark energy as the medium in which the electromagnetic radiation propagates.

Discussion

They tried to measure the fringe shift without applying the Doppler Effect and this small mistake has resulted in chaos and confusion in physics for about one hundred years. Lorentz and FitzGerald analyzed this experiment and stated that the experiment could be explained only if the arm along the direction of motion must have contracted by the factor $\left(1 - \frac{v^2}{c^2}\right)$. Then they made a general postulation that there is contraction of length along the direction of motion by the factor $\left(1 - \frac{v^2}{c^2}\right)$. Einstein converted this postulate into invariability of velocity of light irrespective of the relative motion of source and the observer and following are the consequences: 1) Concept of space time, 2) Special Theory of Relativity, 3) Minkowskian Geometry, 4) General Theory of Relativity, 5) Mockery of science and scientific method, 6) Big Bang Theory and 7) Chaos, confusion, inconsistencies and contradictions in physics.

Factually the velocity of light or electromagnetic radiation is invariable with respect to the relative motion of the source and the observer because of the Doppler Effect which in turn is because of the medium and wave nature of the electromagnetic radiation. Due to the Doppler Effect the electromagnetic radiation compensates for the relative motion of the source and the observer by changing the wavelength and the frequency of the electromagnetic radiation commensurate with the velocity with which the observer and the source are moving.

The idea of the expanding space is an absurd idea on the face of it because a point could move beyond if there is space for the point to move. Even the common sense of an illiterate person cannot accept such an absurd concept; I wonder how the particle physicists and other physicists concerned with cosmology have been accepting, justifying and conducting research for last one hundred years. While doing research for the Energy Theory of Matter &



Cosmology I found that an imaginary universe of theories and concepts has been build up around the Big Bang Theory and if one wanted to do something about the Big Bang Theory in totality it would take him decades to know about the imaginary castles build up about the Big Bang Theory. The Big Bang Theory along with the associated theories and concepts had converted absolute space into an emergent concept, which means whole space having started from a single point. Secondly these baseless theories had made matter virtually absolute.

It is a misconception of some so called scholars that Big Bang Theory is the theistic theory of origin of matter and cosmos but if we consider the absolute matter or emergent space; theism fails.

It was rightly pointed out in the Energy Theory of Matter & Cosmology that any theory which does not accept space as absolute and matter as emergent, shall have to be rejected sooner or later.

Ultimate proof of failure of Big Bang theory

In most simple and undisputed terms the 'null' result of Michelson-Morley experiment is the ultimate proof of failure of Big Bang Theory provided the Doppler Effect is properly explained. Since the Doppler Effect is experimentally proved since 1848 and also the same is established in cosmology by Hubble observation of red shift of galaxies. Once the Doppler Effect is theoretically as well as mathematically explained; that should be the final nail in the coffin of Special Theory of Relativity, space-time concept, Big Bang Theory and every science associated with these theories.

There should be absolutely no doubt whatsoever that the ether or the dark energy is the medium in which the electromagnetic radiation propagates. However, it could be finally and ultimately confirmed by an experiment with the Michelson-Marley type of instrument with just one improvement; the light source is such that the wavelength of light is changing with time. Then we could simply measure time difference directly if we have long arms of the instrument, or we could measure the time difference by study of the interference pattern. The time difference result like the fringe shift result has also to be null.

Theoretical, experimental and mathematical proofs of energy theory of matter and cosmology

Big Bang Theory was the biggest flop of the twentieth century. To cover up the major problems in the Big Bang Theory, physicists suggested 'dark energy' in order to explain the major problems. Big Bang Theory was a simple consequence of rejecting the ether in classical physics and to cover up and explain many major experimental observations physicists had to rely on the same ether in the form of dark energy.

There are five constituents of cosmos namely energy, electromagnetic radiation, matter, space and time. This might seem very strange that energy and electromagnetic radiation has been shown to be two different constituents but this can be understood through this article. One could formulate a theory when there is clear understanding and knowledge of these basic constituents. Without the clear conception of these basic constituents any theory of matter and cosmology would be simply a speculative idea and it

would be wrong to call such speculative ideas as theories. Till the end of nineteenth century the world had clear cut understanding of time and space. But in so far as the matter and radiation are concerned there was no clear understanding. But efforts were being made in classical physics to understand the nature of matter and energy especially in the second half of the nineteenth century. As described in the article of 'Energy Theory of Matter & Cosmology' there is absolutely no lack of understanding of these five constituents of cosmos. There is mention of only four types of constituents namely space, time, matter and electromagnetic radiation but there is also the mention of 'energy which constitutes the matter' as having different properties and characteristics than the electromagnetic radiation. According to the 'Energy Theory of Matter & Cosmology' space is absolute, matter is emergent from the energy, energy is absolute and time is unidirectional continuum having started at the time when matter came into existence and as and when matter will be transformed back into the form of energy; time, as we know it, will stop and there will be another time frame which will depend on the nature of the energy.

The design and creation of universe is described in the article of Energy Theory of Matter & Cosmology and need not be repeated here. It may not be out of place to mention here that philosophically it is the perfect design and there are absolutely no philosophical problems in this design.

Theoretically as well as philosophically speaking unless and until there is mechanism, reason and means for transformation of energy into matter; the transformation will not take place. The Theory provides the mechanism and means as well as the reason of transformation. This is explained by the initiation of the scalar field which would require the existence of the substance having the reason and capability to create a scalar field at a time to be decided by the possessor of the substance; which is possible only if the substance is the living universal creator. There is absolutely no other alternative by which universe could have been created. This should be the most important theoretical & philosophical proof that universe has been created by a creator.

There has to be just one primary reference frame with respect to which laws of physics and interacting forces will have the basic value. The laws of physics and forces of nature would require adjustment in any other reference frame which is not at rest with respect to the primary reference frame. The primary reference frame is the reference frame which is at rest with respect to the dark energy and the dark energy is in turn at rest with respect to the energy content of the universal creator. No two reference frames which are not at rest with respect to each other and which are not at rest with respect to primary reference frame could be equivalent. This is theoretical requirement. This theoretical requirement is due to the fact that the existence of the medium in the form of dark energy is proved by the Michelson-Morley experiment and secondly the radiation travels in this medium at a fixed velocity irrespective of relative motion of source and the observer.



The Doppler Effect without the medium would be a phenomenon which cannot be explained. Having proved the existence of the medium in the form of dark energy; the Doppler Effect which was the only cause of null effect of fringe-shift in Michelson-Morley experiment, must be theoretically and mathematically explained as experimentally this effect has been already proved from 1845. The proper theoretical and mathematical explanation of Doppler Effect will indirectly prove Energy Theory of Matter & Cosmology beyond any doubt.

Doppler effect of light

Doppler Effect of sound is very well understood in classical physics and there is absolutely no problem in explaining the Doppler Effect of sound theoretically & mathematically because experimentally it is already proved from 1845. This is so because there is well defined medium of air; but Doppler Effect of light has absolutely no explanation if there is no medium. Proper theoretical and mathematical explanation of Doppler Effect in respect of light is a bit different because in respect of light the relative velocity of source with respect to the medium is not known whereas in respect of sound it is known. Having proved the existence of dark energy as the medium, which is experimentally proved right from 1848 and in cosmology the Doppler Effect is already studied from 1929 by Hubble, there has to be proper mathematical and theoretical explanation. Theoretically light is the electromagnetic wave which is present in the medium which observer feels. This is the basic nature of light but we have adopted a different approach to the light or electromagnetic radiation. We assume that light is a wave motion which is travelling in the medium. Thus the actual nature and approach adopted for the electromagnetic radiation is different. Doppler Effect is basically representative of the actual nature of electromagnetic radiation. The Doppler factor is the factor which should be taken into account for mathematical calculations in the adopted approach of electromagnetic radiation.

For deriving the Doppler factor let us assume a source of electromagnetic radiation which produces a certain number of waves in the medium over a certain distance; this number has to be a constant irrespective of the observer and its movement with respect to the medium because same number of waves are to be traversed.

Assuming a source of electromagnetic radiations producing the 'N' number electromagnetic waves over a distance 'l'. Now if the observer 'A' is at rest with respect to the medium he will see 'N' number of waves over a distance 'l'. An observer coming or going away from the source will see the same number of waves over the distance 'l'. If a source of electromagnetic radiation produces 'N' number of waves over a distance 'l' in the medium which is at rest with respect to the source, same 'N' number of waves will be visible to observer coming towards the source. Assuming the observer is moving with respect to the source or the medium at a velocity 'v' and the velocity of the electromagnetic radiation in the medium at rest is 'c'.

$$N = f_o \frac{l}{c}$$

f_o is the frequency of the waves and 'c' is velocity of electromagnetic radiation in the medium when the source is at rest.

Accordingly $N = f_v \frac{l}{c+v}$

where f_v is the frequency as observed by the observer approaching the source with a velocity 'v'.

$$N = f_o \frac{l}{c} = f_v \frac{l}{c+v}$$

$$f_v = f_o \left(1 + \frac{v}{c}\right) \text{ OR } \lambda_v = \frac{\lambda_o}{1 + \frac{v}{c}}$$

λ_o is the wavelength of the waves when the source is at rest with respect the medium and λ_v is the wave length of the light when the observer is approaching with a velocity v.

Similarly following formula

$$f_v = f_o \left(1 - \frac{v}{c}\right) \text{ or } \lambda_v = \frac{\lambda_o}{1 - \frac{v}{c}}$$

Will apply when the observer is receding from the source.

These formulae could easily be generalized that if there is relative motion between the source and the observer, there is change in frequency and wavelength as observed by the observer and this factor will be

$$\left(1 \pm \frac{v}{c}\right) \text{ in case of frequency and } \frac{l}{\left(1 \pm \frac{v}{c}\right)} \text{ in case of wavelength.}$$

The + sign is to be taken for approaching conditions and - sign is to be taken for receding condition.

Now in the Electromagnetic Dynamics the energy of the electromagnetic radiation is worked out as

$$E = k m c^2$$

Where 'm' is assumed mass of the photon in case the wave-motion is considered the photon. The value of k varies from physicist to physicist because they never considered the changeover factor which is the Doppler factor. For derivation of $E = k m c^2$ literature shall have to be referred.

Thus $k = \left(1 \pm \frac{v}{c}\right)$ because Doppler factor was not invoked while deriving the formula $E = k m c^2$

Hence $E = \left(1 \pm \frac{v}{c}\right) m c^2 = hf$

This is the equation which would replace the equation

of Einstein $E = \frac{m o c^2}{\sqrt{1 - \frac{v^2}{c^2}}}$ (Wrong equation)

Now let us now consider $E = hf v = \left(1 \pm \frac{v}{c}\right) m c^2$

Since energy 'E' cannot be negative as such under receding observer condition

$$v \leq c$$

We have seen that under receding conditions $v > c$. We will consider a moving object in between two observers. If the object is receding one observer then he must be approaching the other observer. Since receding velocity limit is 'c', the approaching velocity limit is also 'c'.

Hence $v \leq c$ is the general condition of the velocity of the object. Thus it is the Doppler Effect which puts a condition of maximum limit on the velocity of the radiation and matter. Thus the maximum limit of relative velocity of object/matter is the velocity of light as in case of theories of relativity.

Since according to the Energy Theory of Matter and Cosmology the galaxies are having rotational and revolutionary motion in the dark energy; evidently the motion of the objects has to be in all possible directions with respect to dark energy. The condition that the velocity with which two objects can recede or approach is limited to the velocity of light would mean that the object could have velocity equal to half of the velocity of light with respect to the dark energy. This is because two objects which are receding or approaching is limited to the velocity of light so the objects could have the velocity to the extent of half the velocity of light with respect to dark energy.

The Doppler Effect is properly explained theoretically, experimentally and mathematically; that should be the proof of Energy Theory of Matter & Cosmology. However there are several other major proofs available. But I would briefly like to mention two most important proofs.

Cosmic background radiation

Big Bang Theory or General Theory of Relativity has no explanation of this stationary radiation in the space which has been studied in detail and sufficient data is available with NASA and other observatories.

We have derived the equation

Under receding condition

$$E = hf = (1 \pm v/c) mc^2$$

Under a condition $v = c$ (receding)

$$E = 0$$

This is a strange condition where the energy in the form of electromagnetic radiation is being emitted but the observer cannot receive the same. This in sound waves is the 'sonic boom' condition and in respect of the electromagnetic radiation the 'sonic boom' condition is the existence of the Cosmic Background Radiation. Since there are billions of galaxies and the galaxies are receding from the earth/solar system and the rate of receding is increasing with time (accelerating expansion of universal matter as per the Energy Theory of Matter & cosmology) so the 'sonic boom' condition changes with time as several galaxies must be leaving the 'sonic boom' condition and several galaxies must be entering in the condition.

Thus, the fluctuations of the Cosmic Background Radiation can be easily explained and so the anisotropy. Since there is sufficient data of studies of Cosmic Background Radiation available with NASA and other observatories; the satisfactory correlation of data with the Energy Theory of Matter & Cosmology should be proof of the Energy Theory of Matter & Cosmology.

Hubble observation

Hubble observation is simply the study of Doppler Effect and is evidently governed by the formula

$$E = hf = (1 \pm v/c) mc^2$$

$$E = hf = (1 - v/c) mc^2$$

$$h^c/\lambda = (1 - v/c) mc^2$$

$$\lambda_v = (1 - v/c) \frac{h}{mc}$$

$$\lambda_v = \frac{h}{m(c-v)}$$

Hubble law and other details and data could be correctly based on the following formulae

$$\lambda_v = \frac{h}{m(c-v)}$$

$\frac{d\lambda_v}{dt} = \frac{d}{dt} \left(\frac{h}{m(c-v)} \right)$ These two formulae will be basis of study of cosmology.

Since Hubble has detected redshift of almost all the galaxies it could be easily concluded that the solar system is very near the centre of the universe.

Quantum Mechanics

Since the plank - Einstein equation : $E = hf$ is applicable for photons

Now following equation will not be applicable

$$E = hf \neq \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$$

The valid wave & particle equation is

$$E = hf = (1 \pm v/c) mc^2$$

The equation will be valid for both photons and matter because it is an established fact that matter also displays the wave characteristics even up to the molecular level. The whole Quantum Mechanics will have to be based on this formula and the previous Quantum Mechanics shall have to be rejected. The Schrodinger Equations would require modification, revising and devising on the basis of this formula. The relativistic Quantum mechanics shall have to be simply rejected.

'Theory of everything'

Let us now discuss how Energy Theory of Matter and Cosmology is in true sense the 'Theory of Everything'. This article in true sense could be called the discovery of the formula:

$$hf = E(1 \pm v/c) mc^2$$

This formula represents the true nature of energy. Energy which constitutes the matter has actually not two but three natures. The energy has the wave-nature, particle nature and the pure energy nature. We could make studies of the energy in wave nature or particle nature but it would

be very difficult to actually understand the real true nature of the energy. There has to be reason as to why the energy behaves also is other two natures. The cause which imparts other two behaviors to the 'energy' is due to the initiation of the scalar field from the peripheral energy the universal creator. There has to be the reason, desire, timing and capability of the universal creator for creating this scalar field. The scalar field has been concluded by realizing the position of the universal creator; since the universal creator surrounds the universe as such the field created by the universal creator has to be scalar and not a vector. Keeping in view the reason, desire, timing and capability of the scalar field; the universal creator has to be living.

Thus Energy Theory of Matter and Cosmology is the theistic theory of universe and a scientific proof of existence of the living universal creator.

All the studies could now be made on the basis of the formula: $hf = E = (1 \pm v/c)mc^2$

This formula represents the behavior of the electromagnetic radiation and the matter and from the behavior of the matter & electromagnetic radiation as governed by the above formula we could study the scalar field. Secrets of the all four forces in nature namely gravitational force, electromagnetic forces, weak nuclear force and strong nuclear force lies in as to how the scalar field effects the 'energy' which constitutes the matter and electromagnetic radiation. It is because of this scalar field 'energy' displays the properties of these four forces in nature. Since the String Theory is trying to understand the basic nature of the energy; the String Theory needs to be modified so as to keep this discovery in view.

Energy Theory of Matter and Cosmology is actually the 'Theory of everything' and this theory has tremendous implications for the humankind. If we analyze the implications of this theory the people whom atheistic science has turned into atheists will at least have the purpose of life. All the philosophy and the science especially life sciences and physics shall have to be rewritten. Now we have to have the theistic science and not the atheistic science which we have been pursuing.

Energy Theory of Matter and Cosmology is not to be proved, it is already proved if we analyze all the studies conducted so far. If we consider the studies so far in physics; be it Cosmic Background Radiation, Doppler Effect, Hubble Law, Interference, Diffraction, Atomic Physics, Nuclear Physics, Electromagnetic Dynamics; it is already proved conceptually, theoretically, experimentally and mathematically. One has to bear in mind that Doppler Effect is the changeover factor of wave-nature to the particle nature of 'energy'. Since we knew the Doppler Effect but under the classical physics we had no explanation because proof for the ether was not there and under the Big Bang theory also we had no explanation

for the Doppler Effect. This article could be also called the article which explains the 'Doppler Effect'.

We have been pursuing the atheistic science since last one and half centuries; thanks to Charles Darwin and Albert Einstein wrong science which also had the impact on the social, political and moral domain of humankind.

The main reason why I have called the 'Energy Theory of Matter & Cosmology' as the 'theory of everything' is that at least we could know the factual position of creation of the planet earth. Keeping in view the physical and chemical characteristics of the earth including its atmosphere; by pursuing the present atheistic science we cannot know how the planet earth came into existence. Recently, Hawkins and others put forward the idea that God did not create the universe (<http://www.bbc.co.uk/news/uk-11161493>; http://news.yahoo.com/s/nm/20100902/lf_nm_life/us_britain_hawking) and have put forward arguments for possibilities of creation of earth. Under any circumstances with the atheistic science, which we have been pursuing, we just cannot understand the creation of earth. When we pursue the Energy Theory of Matter & Cosmology even then there seems to be no way we could know the creation of planet earth; keeping in view the physical and chemical characteristics of the earth and its atmosphere. Because the possibility of earth coming into existence by the interaction of natural forces in nature naturally is 'nil'; so it is just impossible that earth could have come into existence by interaction of natural forces in nature, though the initiation of natural forces would require the scalar field which in turn would require the existence of the universal creator. The planet earth could only be created by the universal creator directly; the forces in nature are not sufficient to have been responsible for creation of the planet earth.

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