

CHAPTER-18

DARK MATTER, DARK ENERGY AND SUBATOMIC PARTICLES

Highlights about the chapter DARK MATTER, DARK ENERGY AND SUBATOMIC PARTICLES in MATERIALISTIC UNIVERSE by Ramesh Varma.

Note: Chapter over DARK MATTER, DARK ENERGY AND SUBATOMIC PARTICLES is not an encyclopedia. Challenger has illustrated only which relates to the new or contrary findings/understandings with some existing references to make the subject understandable.

- There is nothing like Dark-matter or Dark-energy in the Galaxies or in the Universe.
- Galaxies have White-matter other than the visible matter. Galactic-bar is surrounded by the dust and gases. In between this is the dense White-matter; mass of which would not be less than 25% total mass of the galaxy and White-matter amounting to 50% may be with the galaxy else where but within the galaxy. Physicists/Astronomers have falsely understood this White-matter as Dark-matter.

CHAPTER - 18

DARK MATTER, DARK ENERGY AND SUBATOMIC PARTICLES

(A) DARK MATTER

DOES DARK MATTER EXISTS OR A FALSE SPECULATION?

Challenger ignored this subject over **Dark Matter** and **Dark Energy**, because he wished to remain confined to his Challenge over the basics of Astronomy. But after going through an article over the Internet over Dark-matter, on 8th Jan. 2008 and Dark energy in July 2009, he realized its importance by understanding that World Experts are also wrong over this subject too because of their wrong and false basic understanding about light and other rays (energy).

WHAT IS DARK MATTER?

WORLD:

FROM NEWSPAPER: March, 2000

Dark Matter

Recently I read that 90 per cent of our galaxy is made up of dark matter. What is dark matter? What is it made of?

The universe is full of surprise. It is now believed that there exists more matter in the universe than is visible to us as stars, nebulae, galaxies etc. The matter that astronomers believe exists but which they have not been able to detect is known as 'dark matter'. Existence of such matter was first speculated upon about 6 decades ago. In the early days it was a sort of curiosity but now astronomers have realised its importance as the survey of the universe would be incomplete if it was not taken into account.

The presence of dark matter is indicated by its gravitational effects on visible bodies so though it has mass, nobody yet knows what it is made up of.

90 per cent of our own galaxy, the Milky way is believed to be made up of this invisible matter.

WORLD UNDERSTANDS:

- That visible matter accounts for the smallest portion of the Universe, may be between 1 to 10% of the total and rest is the Dark matter.
- Physicists believe that dark matter is abundant in the Universe and their presence would be somewhere between 30 to 99%.
- Scientists during the year 1930s measured the mass of galaxies by the two processes; firstly by measuring how fast galaxies turn; the faster the galaxy turns; the more mass it contains. The second way adopted was to calculate the mass of all the observable luminous parts (solids and hot gases) within the galaxy. But when these measurements were done, scientists discovered that the two answers were not the same, there was a great difference. Mass of the galaxies measured by its turn was ten times more than the measured mass of the luminous components. The starting conclusion was that there must be stuff inside these galaxies that we could not see 'dark matter'.

Besides solid bodies, galaxies have very hot gases which can be seen and their mass can be measured. Most of the stuff in galaxies is invisible and since these are the largest formations in the Universe held together by gravity, scientists then conclude that most of the matter in the Universe is invisible. This invisible stuff is called 'dark matter'.

CHALLENGER:

Light and all type of other rays, electrons of electricity which the Challenger has understood and proved as a state of the matter i.e., Fourth State Of Matter (FSOM or white-matter) is not merely an energy but a matter too. FSOM (white-matter) has mass and also has all the properties of matter as already understood,

stated and proved under the relevant chapter(s) but with an additional property to act as energy.

Challenger has concluded from the definition of 'dark matter' understood by the World that World has gone wrong due to wrong and false understanding of the basic classification of the states of the matter. World Experts understand light and other rays as only energy but fail to accept it as a state of matter (FSOM or white matter) which is in the space other than the visible matter. It is the white-matter in the galaxies along with visible matter but not the 'dark matter' as speculated (understood) by the World.

Prior to detonating the atom (atom bomb), World may have thought of the dark matter but it is surprising that the modern Experts too are advocating of its presence by ignoring the white-matter. Challenger has concluded that it is the mind-set of the Physicists/ Astronomers which is keeping them away from correctly understanding that what the galaxies have other than the visible matter.



WHAT THE SPACE HAS OTHER THAN THE THREE KNOWN STATES OF THE MATTER?

It has already been illustrated and proved that space is not empty but is filled with white-matter but here is with some more illustration:

DENSITY FACTOR OF WHITE-MATTER AND GRAVITY FACTOR OF THE GALAXY; A REASON TO SPECULATE DARK-MATTER:

Every different kind of white-matter has different densities besides different sizes of their microest-spheres (particles). Because of this density factor, it might be possible that every different kind of white-matter released/emitted/radiated by the Sun-stars/ celestial-bodies in a galaxy might not be escaping from the clubbed-gravity of the galaxy.

Further, density of the medium (space) formed by the white-matter around the Sun/star/celestial body is the greatest than at its far off effective range. Because of this reason density of white-matter around the central region of the galaxy OR around cluster of central-massive stars OR galactic-bar would be the greatest. Mass of this central dense white-matter would not be less than 25% total mass of the galaxy. This said dense white-matter does not exist over or near the Earth, except over the surface of the Sun.

Because our galaxy (Milky-Way) is of the shape of a disc, thus Astronomers/Physicists/Space-Explorers could not see by any mean the central part of our galaxy containing dense white-matter but they can see/notice dense white-matter region within any other galaxy other than our own. Challenger has concluded that this factor would have resulted to speculate the presence of dark-matter in the galaxies but whereas in fact, the observed mass in the galaxy other than the visible mass is not the dark-matter but it is the invisible white-matter.



MEASURING UNIT OF ENERGY (WHITE-MATTER); A ROOT CAUSE OF THE WHOLE PROBLEM:

We can measure solid, liquid and gas in its mass i.e., in weights but unfortunately, we have no means to harness or contain white-matter in a vessel/device to weigh it thus for its measurement World has to adopt a different mode for its measurement. Our this unfortunate situation that we can weigh solid, liquid and gases in kilograms/pounds but can not weigh white-matter has become unfortunate for the human to understand the Universe/Astronomy. If human uses its **utmost** sense as stated and illustrated by the Challenger, this makes no difference whether we can weigh the energy (white-matter) or not for understanding it as a state of the matter.

ATOMIC FUSION (ATOM BOMB):

WORLD: World understands that how much energy can be produced by fusion from a unit of mass by the Einstein's formula $E=mc^2$ where E is the energy produced, M is the mass of the atoms (matter) and C is the speed of light (3×10^8 metre/second)

CHALLENGER: But the World has never given a thought and realized to understand that one kilogram of atomic mass on fusion would yield one kilogram of energy (white-matter) if we had/have the means to weigh the produced energy White-matter.

What the Challenger has concluded above, it gets a self stamp by understanding the law of Chemistry that no matter can be destroyed or produced, only we can transform it from one state to another i.e., in this case from solid (first state) to FSOM (Fourth State Of Matter or white-matter).



HOW MUCH MASS ALL THE STARS ARE LOSING EVERY SECOND?

WORLD:

- Our Sun is an average sized star. The biggest stars are more than 100 times as massive as the Sun, and the smallest stars are less than $1/10^{\text{th}}$ as massive as the Sun.
- Our Sun is in an average sized galaxy called the Milky Way. Milky Way contains about 100 billion stars.
- There are billions of known galaxies.
- Sun loses several hundred million tons (4,200,000,000 kilograms) of its mass per second due to burning of hydrogen for its nuclear fusion to generate (liberate in space) energy. With this rate Sun can live for about 10 billion years.

CHALLENGER:

If our Sun which is an average sized star and in an average sized galaxy is losing so much mass per second; how much mass all the stars of the Universe would be losing per second **or have lost till date?**

Answer: By knowing lost mass figure, our brain cells can burst; **but where this lost mass is going?** World understands that this lost mass is being converted into energy and energy is not a matter thus has no mass; here the World has done or is doing a blunder mistake. The lost mass by the stars/suns is not going outside the Universe, but it is within the Universe which some bodies are using to build themselves and some energy (White-matter) is being accommodated in the expanding Universe.

All the stars of the Universe are losing billions of billions tons of their mass per second or are pumping into the Universe billions of billions tons of White-matter per second. White-matter released is not reaching at its end in a second or so but is taking a long time from any time to billions of years. This means, space is being filled with this new White-matter massive mass and the existing White-matter mass is being absorbed as stated above. This concludes that space has the presence (or medium) of White-matter, the mass of which is in multiplies of the mass of the visible matter (solid/liquid/gas).

Further, World understands under speculation (false speculation) that expanded space is getting dark matter for its filling from some where else, which is not so but it is the White-matter generated/released by the stars/suns which is occupying the expanded space as stated above. By this process most of the existing solid/liquid/gas matter of the celestial bodies/suns would get converted into White-matter and the remaining matter which would not go under the nuclear fusion would also lose their stability and get disintegrated (converted) into White-matter when pressure of White-matter over it would be reduced to a critical low level as stated and explained under the relevant chapter(s) of MATERIALISTIC UNIVERSE. The whole process would lead to form a Universe with the thinnest possible White-matter to pave the way for re-start of the formation of new Universe as already observed and stated.

CONCLUSION:

All the stars are losing their mass continuously since their formation billions and billions years ago. If the lost mass or the generated energy (or created White-matter) would have vanished from the Universe as the Experts believe because of their understanding (false) that energy is not a matter and thus has no mass; the whole Universe may have gone empty by now or would go in near future. This concludes that what the Physicists/Astronomers/concerned understand about space matter other than the visible matter that all is White-matter and nothing else.

(B) DARK ENERGY

World has speculated 'Dark-energy' like 'Dark-matter' but the Experts have not yet been able to understand either Dark-matter or Dark-energy and what are these.

WORLD:

The following information about Dark-energy has been taken from the Internet (July 2009)

- That Dark-energy is a notion conceived by the modern Physicists.
- There is no proof that it exists, but it must exist, solely because it is universally agreed by the most Physicists that:
 - 1) The Universe had a beginning.
 - 2) The Universe is expanding.
 - 3) (a) The known mass-energy of the Universe cannot account for the supposed rate of expansion.
 - (b) Add to this that this rate of expansion is accelerating.
- That despite thousands of papers published on the subject, there is literally no experimental evidence that dark-matter or dark energy exists. Hence, it is all a matter of belief.

CHALLENGER:

Why the Experts (Physicists/Astronomers) have speculated Dark-matter and Dark-energy?

Because of a blunder error committed by the past-era Physicists while understanding the basic/property of matter and light/rays, Experts have gone in the wrong direction in their thoughts/Understanding/knowledge.

● **Dark-matter:** Because of the said blunder-error, Physicists did not understand **White-matter** which constitutes great amount of the matter in the Universe in addition to known (understood) states of the matter. This not understood **White-matter** is being falsely understood by Physicists as Dark-matter present in the Universe. Much more have been stated about Dark-matter and white-matter under the relevant chapters/paragraphs.

● **Dark-energy:** Dark-energy too has been speculated because of the said blunder error. Had the Experts (Physicists) understood, correctly the light/rays; the present-era modern Physicists would not have speculated Dark-energy. The phenomenon which the modern-era Physicists/Astronomers understands due to the Dark-energy; is in fact due to the unique property of the light/rays. To understand this, some facts need understanding/re-collection in mind.

SOME FACTS:

FACT-1: Space is not empty; it is filled with white-matter.

FACT-2: White matter has mass, expands, compacts and puts thrust over the celestial bodies while escaping from the bodies and also while on its strike over the bodies.

FACT-3: White-matter, like air moves with speed towards low pressure zone from high pressure zone.

FACT-4: The rate of escape of White-matter from other states of the matter increases when pressure of White-matter over the bodies is reduced; as water evaporates faster on reducing pressure of air over it **OR** the rate of formation of steam increases on reducing pressure.

FACT-5: Our Sun is compact due to the back thrust of the escaping light/rays (solar-ejects) or due to the pressure of white-matter which surrounds the Sun. Presume if we have the means to create absolute nothing or no matter-zone (not even white-matter) around the Sun. On doing so, Sun would explode to release all its matter in the space including its white-matter. But if pressure of white-matter over the Sun is reduced gradually, Sun would produce more white-matter (energy) than the Sun is producing in the absence of decreased white-matter pressure.

FACT-6: Any object on its fall from above towards the Earth gets accelerated. Why it gets accelerated? This all is because at every shell over the Earth as we move from above towards the Earth, magnitude of gravity keeps on increasing. Object on its move has lower gravity pull on its half part than the other half part which is facing the Earth. This noticed variable gravity force with increasing magnitude keep on accelerating the object on its fall towards the Earth. Further, why the distance between two adjacent air bubbles keeps on increasing on their escape from water bed towards the surface? This all is due to the water pressure which is variable and keeps on reducing as the bubble moves from the bottom towards the surface. This has been well explained under Chapter: Solar-ejects while making understand that why solar-wind particles are accelerating on their move from the Sun's Corona in to the space. (Solar-wind particles too move with accelerated speed because pressure of white-matter in the Corona is greater as compared to the outer effective range of the Sun).

FACT-7: Universe has not been formed from a highly compact matter equivalent to a pea-nut as understood by the World and there is nothing like Big-bang. No matter and that too in such a compact state can not exist if it is surrounded by absolute nothing. This has been well explained under the relevant chapter/paragraph.

FACT-8: Existing Universe has been formed from the thinnest possible matter and Universe is under oscillation and now Universe is towards its disintegration.

FACT-9: Every existing celestial body is losing its mass due to release/escape of white-matter from it. On losing the mass, its gravity is reduced thus bodies are widening their orbits.

FACT-10: Because of the reduced white-matter pressure in the existing Universe on its (white-matter) move to outer far off, celestial bodies are swelling fraction by fraction. A swelled body with lower mass would face greater thrust by the materialistic light/rays from the central body (Sun/Star), thus would widen its orbit further. (Note: This fact/ phenomenon would be noticeable in thousands of years)

FACT-11: Take a rubber cord; mark it with dots at equal distances. Peg one end of the cord over plywood piece and make the cord straight without stretching. Mark dots over plywood starting from the peg just opposite to the dots marked over the cord. Stretch the rubber cord, from other end, every dot marked over the cord would get stretched uniformly. But on realizing the fact, the dot which was near the peg has moved a little as compared with the dot marked at the other end of the cord. Though every dot has moved uniformly but the far off dot has moved much more. The same way, in solar system if we notice an expansion of 1KM in one year it would be billions and billions of KM expansion at the far off.

The result obtained by computing the said facts: It is the white-matter and White-energy but not the Dark-matter and dark-energy:

There is no need to speculate 'Dark-matter' or Dark-energy'; every mystery and riddle of the Universe can be well understood by correctly understanding the states of the matter and unique property of the light/rays.

1) The Universe had a beginning:

There is no end to finest, so finest form of White-matter can be understood as the basic component of the matter. Universe has been formed from this matter as stated under the relevant chapter/paragraph.

2) The Universe is expanding:

● White-matter from its high pressure zone (centre of the Universe) is moving outwards to low white-matter pressure-zone. This fast moving white-matter is taking along visible matter too

outwards, resulting in expansion of the Universe. (This can be well understood after going through chapter over solar-ejects)

● Because of the widening of orbit of the existing celestial bodies, every body is contributing its own share in expansion like rubber band.

3) The rate of expansion is accelerating:

● In the solar system, Sun's Corona has great white-matter pressure as compared to far-off at outer end of the solar system. Because of this factor (variable pressure of white-matter i.e., medium) solar-wind particles are moving with accelerated speed. But to understand expansion of the Universe or movement of the celestial bodies outwards in all directions by applying the solar-wind particle factor, some more understanding is required. Celestial bodies are huge bodies as compared to solar-wind particles, so thrust by the light/rays (white-matter) over celestial bodies is negligible as compared to the thrust over the solar-wind particles because of mass, surface area ratio, but thrust is not absolute zero. Further thrust by the escaping rays over the solar-wind particles on their escape from Sun's Corona is great, whereas thrust by the outward moving light/rays (white-matter) over the celestial bodies are the least but not absolute zero. In addition, the difference in white-matter pressure over the half-part of the celestial bodies (clubbed-bodies) than the other half part is effecting for their movement and acceleration.

Note: Individual celestial body can not move and accelerate like a solar-wind particle moves and accelerates by the pressure difference of white-matter, because every body in a galaxy is bonded with another by the gravity factor. For this (individual celestial body) pressure difference factor, galaxy is one body, so by said (white-matter pressure difference) factor galaxies are moving apart as stated.

● Pressure of white-matter in the existing Universe is reducing due to the escape of white matter to far-off in all directions. This reduced pressure is resulting to generate in every body more and more white-matter with faster rate (accelerated rate). Computing of all the facts (FACTS) have resulted to conclude the acceleration in expansion of the Universe.

CONCLUSION:

The Experts (Physicists/Astronomers) by not correctly understanding the unique property of light/rays have speculated and are in search of the dark-energy and dark-matter; both do not exist in the form in which they understand. Their speculation is a mirage-speculation and would lead the World towards deep ravine. **This is like search for the God in the shape of human like creation.** In spite of making all efforts to canvass the Physicists that there is nothing like Dark-matter and Dark-energy as speculated, they (Physicists/Astronomers) would not give up the speculation because of obvious reasons (snags) which are beyond explanation but have been understood by the Challenger.

(C) SUBATOMIC PARTICLE:

1. A friend of the Challenger asked him to go through the subject Particle Physics to find any possibility that World might be aware of the presence of matter in space other than the known three states of the matter and the speculated Dark-matter.

WORLD:

From Internet: Jan 2008

Particle Physics is a branch of Physics that studies the elementary constituents of matter and radiation and the intersections between them. It is also called 'high energy Physics' because many elementary particles do not occur under normal circumstances in nature, but can be created and detected during energetic collision of the particles, as is done in laboratory in particle accelerators.

Modern Particle Physics research is focused on subatomic particles, which have less structure than atoms. These include atomic constituents such as electrons, protons and neutrons (protons and neutrons are actuarially composite particles, made up of quarks), particles produced by radiative and scattering process, such as protons, neutrons and muons, as well as wide range of exotic particles.

Strictly speaking, the term particle is a misnomer because the dynamics of Particle Physics are governed by quantum mechanics. As such, they exhibit wave-particle duality, displaying particle-like behavior under certain experimental conditions and wave-like behavior in others (more technically they are described by state vector in a Hilbert space; see quantum field theory)-Following the convention of particle Physics, We will use 'elementary particles' to refer to objects such as electrons and protons, with the understanding that these particles display wave like properties as well.

..... In recent years, measurement of neutrino mass have provided the first experimental deviations from the standard model (The current state of the classification of elementary particles).

Newspaper: Jan 2008

.....There are particles like the neutrinos that can go through the earth billions of times without making a hit.....

From Internet: Jan 2008

Dark Matter

We know from observing the rotation of galaxies that about 90% of the matter they contain is invisible to us. The matter we can't see is called "missing" or "dark" matter. The amount of dark matter contained in the universe is crucial to its fate. If it is greater than a certain amount, the universe will eventually collapse. Below this, and it will keep on expanding for ever.

There are many ideas about dark matter might be, ranging from exotic new particles to black holes. One idea says that the *neutrino*, an abundant fundamental particle which is thought to have zero mass, actually has a tiny mass. However, neutrinos generally move about the universe quickly and are not stuck together in clumps, as they would need to be to explain the rotation of the galaxies. The most recent explanations of dark matter therefore use a combination of "hot" matter, like neutrino, and "cold" matter like black holes. The true answer has yet to be found. Underground experiments on dark matter are taking place now.

From Internet: Jan 2008

The Future

Particle physicists internationally agree on the most important goals of particle physics research in the near and intermediate future. The overarching goal, which is pursued in several distinct ways, is to find and understand what physics may lie beyond the standard model. There are several powerful experimental reasons to expect new physics, including dark matter and neutrino mass. There are also theoretical hints that this new physics should be found at accessible energy scales. Most importantly, though, there may be unexpected and unpredicted surprises which will give us the most opportunity to learn about nature.....

CHALLENGER:

Challenger has gone through the primary knowledge related to 'subatomic particles' or the subjects 'Particle Physics' and has not found any thing related to his challenged observations, however after going through the subject 'Particle Physics', he conceived some queries:

- Physicists have observed wave-like behavior of subatomic particles under some circumstances: Here they might be doing the same error as they did in understanding the light as stated/illustrated and challenged by the Challenger.
- When particles produced like neutrino has the mass and of size fine to the finest to pass through the Earth billions of times without making a hit: why the other elementary particles have no mass on their liberation when an atom bomb is detonated? Similar query is over the release of energy and elementary particles in space by the Sun and all the suns/stars of universe. **Physicists admit that the neutrino, an abundant fundamental particle which thought to have zero mass, actually has a tiny mass; similarly their thought over all the rays are wrong as they had wrong understanding about the mass of neutrino; all rays are a state of the matter and have mass too.**
- Physicists have them selves admitted that the term 'particle' is a misnomer (a name or term used wrongly). This concludes that they are not accepting the elements of the atoms as particles and are more relying on the term wave which is wrong and false as the Challenger has proved and challenged in the relevant chapter. **Physicists must admit all elements of the atoms as particles and a state of the matter which have the mass too to understand correctly the Universe.**
- There in no Dark-matter or Dark-energy (any unknown state of matter) present in galaxies/universe as understood by the World but it is the elements of the matter (subatomic matter) or the White-matter as stated and illustrated, which is present in the space other than the visible-matter composed of three known states of the matter.



UNDERSTANDING THE MATTER; THE CHALLENGER'S STYLE:

Understanding and computing in brain the following facts would lead to understand the **matter** and thus the universe.

- (i) Universe is 'materialistic': Everything in the Universe is a state of the matter.
- (ii) Energy, besides acting as energy is a state of the matter. When an atom has mass, all its components/subatomic particles also have mass. As already illustrated under this chapter that if all the suns/stars of the universe were/are losing mass trillions tons per second to form and release of energy i.e., something which has no mass and vanishes in the universe; by now universe may have gone empty or would go in near future. This all is against the Nature's principle; hence energy has mass and a state of the matter.
- (iii) Nature a vast laboratory: Study of the matter requires both the laboratories i.e., man-made and created by the Nature; Study under any one by ignoring the other would lead us no where.
- (iv) Study under Nature's vast laboratory:

Consider:-

- **Universe** as building of the laboratory.
- **Solar system** as the layout of the scientific devices.
- **Sun** as the device of high powered rays.
- **Planets and other bodies** as objects with the same property as these celestial bodies have.
- **Sun-device and Jupiter-device** can make easily understandable that rays repel the bodies like the same poles of the magnet.
- **Comet-device** would make us understood that bodies do not orbit but move in a loop-track.
- **Uranus-device** would make easily understandable besides **Sun and Saturn** that rays emerging from spinning bodies form a mirror reflection image pattern to trap and hold the bodies in V-Notch zone, which passes through the equator of the spinning body.

- Further study of orbital-movement and spin of all the bodies would make understand that rays keep the bodies away, spin the bodies and also, force them to move in a path called loop-track or orbit.
- Deep study would result to conclude that why the celestial bodies are behaving so? The results obtained would prove that the rays are of materialistic nature, composed of microest spheres, forms a row by touching each other and forms a curve too to achieve the results (phenomenon) occurring in the laboratory Nature's (Universe).
- Further deep study would make understand that the galaxies are not filled with any new unknown stuff/matter but are filled with rays and subatomic particles called as white-matter by the Challenger. It is the rays (white-matter particles which are keeping the visible bodies apart against the force of gravity in galaxies as these rays (white-matter particles) are doing a similar job in our solar system.



A BRAIN SNAG WITH THE EXPERTS:

The present modern Experts are relying more on their devices than their brain. Further they are always keen to develop sophisticated and very high cost devices and laboratories, so that others should not have an approach/access to study or to find/explore/discover what they have been exploring. Their, this attitude can be gauged from a part of the paragraph taken from the Internet on 14-01-2008, exhibited below.

From Internet: 14- 01- 2008

Public policy

Experimental results in particle physics are often obtained using enormous particle accelerators which are very expensive (typically several billion US dollars) and require large amounts of government funding. Because of this, particle physics research involves issues of public policy.

Many have argued that the potential advances do not justify the money spent, and that in fact particle physics takes money away from more important research and education efforts. In 1993, the US Congress stopped the Superconducting Super Collider (SSC) because of similar concerns, after USS2 billion had already been spent on its construction. Many scientists, both supporters and opponents of the SSC, believe that the decision to stop construction of the SSC was due in part to the end of the Cold War which removed scientific competition with the Soviet Union as a rationale for spending large amounts of money on the SSC.

.....

Proponents of particle accelerators hold that the investigation of the most basic theories deserves adequate funding.....

Approach for the purpose of research should be balanced by relying on the both i.e., over brain and devices too but to develop such human quality is not easy, so every one tilts to one side thus World remain deprived for long period from understanding most of the secrets of the Universe. But to understand that energy is a state of the matter and to understand the solar system only brain visualization is sufficient.



UNIQUE PROPERTIES OF WHITE-MATTER:

In addition to already stated and illustrated property of white-matter that rays act as energy beside having the properties of a state of the matter; there is another property known (un-thoughtful) to the World but never given a thought by them over it.

Solids, liquids and gases get converted from one state to another, like gases (hydrogen with oxygen) form the liquid (water). Similarly White-matter get converted from one kind of white-matter form to another form by passing through or reacting with any other state of the matter or forms complex compounds, mostly with the activation/involvement of some semi-living, living and developed living formations/creatures.



FINAL CONCLUSION:

Light and all type of rays, electrons, small particles and all the known subatomic particles are a state of the matter i.e., white-matter. There is nothing like speculated dark matter and dark energy. Falsely understood dark matter is white matter and dark energy is the white energy of the rays.

