

MATERIALISTIC UNIVERSE

(Preliminary-2)

ASTRONOMY AND LIGHT/RAYS (STATES OF THE MATTER)

PLEASE NOTE:

- Every individual body (Universe, Sun, planets and satellites etc.) has very long illustration; but Challenger has restricted his illustration only to new findings or where he differs with the World knowledge/understanding. Some paragraphs from the existing knowledge too have been stated to link the total information, so as to make the contents understandable. Thus this is not an encyclopedia over Astronomy and over some subjects of Physics (light/rays etc.)
- Going through first few chapters would not reveal the depth of wrong/false understandings by the World. Readers would get astonished over the discovery only by going through all the chapters.

CHAPTER-1

STATES OF THE MATTER

Highlights about the chapter (STATES OF THE MATTER) in MATERIALISTIC UNIVERSE by Ramesh Varma.

Note: Chapter over STATES OF THE MATTER 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.

States of the matter:

- Besides three known states of the matter i.e., Solid, liquid, gas; light-rays and other kind of the rays too are a state of the matter with additional property to act as energy.
- Smell/odour particles are a state of the matter.
- Electron particles and magnetic-rays particles are also a state of the matter.
- There is nothing like speculated Dark-matter. It is the white-matter which is occupying the space other than the visible matter.
- Universe is materialistic.

Light-rays and all other kinds of the rays:

- Unique photograph of total solar-eclipse has confirmed unique property of the rays which has been discovered/ understood by the Challenger.
- Light-rays and all other kinds of the rays do not travel in wave motion; Rays are composed of materialistic particles. Particles rays propagate as illustrated and proved under the relevant chapters.
- By understanding correctly that how a particles ray propagates; experiments performed over the property of light over the laws of Reflection, Refraction, Diffraction, Polarization, Photoelectric effect etc have confirmed that light/rays are in no way a wave but a row/ray of particles.
- Working mechanism of solar/planetary system has firmly confirmed that light/rays are not a wave but are materialistic particles.

- A ray of light or of any other kind consists of materialistic spherical microest-particles, all spheres closely touching each to form a row, called on propagation as a ray.
- As the materialistic spherical microest-particles are closely touching each other (not separated like solar wind particles). They on emerging from a spinning body do not travel straight but form a curved path.
- Rays being materialistic and by forming curve provide torque force with their thrust to the celestial-bodies on emerging and also on striking over the celestial-bodies. Torque force gives the spin to the bodies.
- Rays being materialistic, act as repelling force to keep the bodies away like materialistic-magnetic rays from the same-poles of the magnets act to repel the magnets away. This repulsion to the bodies is in addition to centrifugal-force to keep the bodies further away.
- Curved materialistic-rays on emerging from a spinning body from North and south hemispheres form a mirror reflection image pattern over its equator plane. This pattern of rays becomes the trap-zone for the celestial bodies which orbit around this central-massive spinning body.
- Curved materialistic rays on emerging from a spinning body also act to give a push like hockey stick to ball to force the trapped bodies to orbit around the central-massive spinning body.
- Much more about the rays beyond explanation have been stated and proved under the relevant chapters like solving the riddles that why solar-wind particles accelerate; what spins the Venus retrograde; what spins the Uranus with its axis parallel to the equator plane of the Sun; what has arranged rings around Saturn, Uranus and Neptune;.....??

CHAPTER-1

STATES OF THE MATTER

World has classified states of the matter and understood only three states i.e., solids, liquids and gases:

NOTE:

- As every concerned had/has read above said three states of the matter from childhood thus every one is prejudiced over the said subject. So, it is in your own (concerned/readers') interest for better understanding that this chapter No.1 over STATES OF THE MATTER (Illustrated version) should be read and understood after going through all the pages of 'MATERIALISTIC UNIVERSE'. Please presume, what the Challenger has understood about unique property of light, like we presume in science to get the result based over the presumed 'factor' to arrive at any firm conclusion/calculation.

However, something in brief about the understood states of the matter has been stated under chapter No.1 (Brief Reference) for reading prior to understanding solar/planetary system.

- DARK-MATTER: The Modern-era Physicists have speculated presence of Dark-matter in space besides understanding above said three states of the matter. Does dark-matter really exists OR Dark-matter is another kind of matter which has been dubbed (falsely understood) as Dark-matter instead of understanding it in its real form OR Dark-matter is a Mirage-Matter? Because of the fact (not to read first) as stated above; chapter over Dark-matter and Dark-energy too have been exhibited at the end of the illustration over discovered true working mechanism of solar/planetary system.

CHAPTER-1 (Brief Reference)

STATES OF THE MATTER

(Matter; other than already understood states
i.e., Solids, liquids and gases)

LIGHT/RAYS

(Light-rays and all other different kinds of rays like:
Radio-rays, X-rays, alpha/beta/gamma-rays etc)

Illustration and facts stated under MATERIALISTIC UNIVERSE would prove that: LIGHT/RAYS are not merely a form of energy but a state of the matter too with additional property to act as energy?

Note: Some other forms of the matter (other than the light/rays), which the World have not yet considered a state of the matter have also been illustrated in illustrated version of chapter No.1

Something about the Physicists:

Physicists by not understanding properly the states of the matter are keeping the humanity under dark and are depriving the human from the gains which human can have. Physicists have become accustomed to study and to do research work only by sitting/working in Physics laboratory or observatory by having around their (human) own made devices; thus any research/discovery which does not fall under this purview, they fail to understand, even lack initiative to think over it.

Physicists by not understanding properly every property of:

The light/rays: Are keeping the Astronomers at bay from correctly understanding the basics of Astronomy thus total Astronomy.

And are also depriving the Chemists/ Pharmaceuticals/ Homeopaths from their capability to understand its (light/rays) biological-effects thus are keeping them too away from developing vital medicines.

Physicists by not understanding properly every property of:

The smell/odour particles: Are depriving the Chemists/ Pharmaceuticals/Homeopaths from their capability to understand its (smell-matter) biological-effects in the medicine or chemicals to serve humanity.

Physicists by not understanding properly every property of:

The electrons/magnetic-rays: Are depriving some very special-human (Men/Women) from developing their super-natural activities which could have very significant values for the human.

Physicists by not understanding:

White-matter (light/rays as state of the matter), which has been observed, concluded and proved by the Challenger; and by falsely understanding Dark-matter (a mirage-matter) are keeping in dark the concerned (World) besides themselves.

Note: Challenger after declaring his discovery over unique property of light/rays and true working mechanism of solar/planetary system has concluded during more than two years period of personal experience that the concerned and the Physicists in particular are hard prejudiced over their understanding about the states of the matter and are in the grip/influence of **snags** thus it is not easy (but not impossible) to make them understand every state of the matter, what has been understood and claimed by the Challenger. So, the Challenger has split chapter No.1 to two parts; chapter No.1 (Brief Reference) and chapter No.1 (Illustrated version). His past experience suggests that the concerned should not read illustrated-version of states of the matter prior to understanding true working mechanism of solar/planetary system based over the discovered/understood unique property of light/rays.

PHYSICAL PROPERTIES OF LIGHT/RAYS:

(Rays of any kind: light-rays, X-rays, Radio-rays, alpha/beta/ gamma-rays etc.)

Every different kind of ray has different physical and chemical properties. Light/rays have a number of physical properties but Challenger has illustrated only below said three physical properties which relates to true working mechanism of solar/planetary system.

- (A) Is light/rays merely a form of energy or a state of the matter (Materialistic) with additional property to act as energy?
- (B) Does a ray of light or of any other kind propagate in the form of a wave or in the form of stream of particles?
- (C) If light/rays are composed of materialistic-particles; then in which form light/rays propagate?

(A) Is light/rays merely a form of energy or a state of the matter (materialistic) with additional property to act as energy?

World:

FROM NEWSPAPER UNDER SCIENCE COLUMN, YEAR-1997

Light Energy

In school I learnt that all matter has to be a solid, liquid or gas. The other day I was watching, sunlight is neither a solid, liquid nor gas. Wondered how it could be so.

It is true that all matter in the universe is in one of three states - solid, liquid or gas . But light is not matter.

Matter is in a constant state of motion and motion requires energy. There are several forms of energy and light is one of them.

Matter can get converted into energy, as it happens in the case of stars but once the conversion has taken place it will neither have the properties of matter, nor behave like matter.



FROM TEXT BOOK OF INTERMEDIATE PHYSICS

LIGHT

What is Light?
Light is the agency by which we see things. The sensation of sight is produced by rays of light entering the eye and forming an image of external objects on a sensitive layer called retina at the back of the eye. Light however exists in the world irrespective of any observer and is an important phenomenon in nature, in fact light is one form of energy, the various other forms being heat, chemical energy, electrical energy and mechanical energy. **One of the problems of scientists has been to understand the nature of light or light energy.**

FROM INTERNET DATED 06.10.2009

What form of matter is light? Or is it?
.....
.....
.....
.....

Hope that is not too confusing.

Note: Illustration stated over the Internet is confusing with no firm answer as admitted, thus not exhibited. Batter one should read over the Internet.

Challenger:

From centuries Physicists have formulated a number of theories over the subject MATTER and LIGHT. Every theory fitted/fits (falsely but understood as correct) some where but failed/fails to give most answers because a theory is not a **fact**. Now the Physicists have become prejudiced over these theories and have no time to give a rethought over these theories. Or in other words, Physicists do not want to discard/shed any of the theory because every theory fits (falsely but understood as correct) some where, thus while defining status of light/rays that is it a matter or not, they (Physicists) give confusing statements/ illustrations with no firm answer. A below exhibited part taken from World-renowned magazine (ASTRONOMY) over the subject Dark-matter has provided the proof that till to date the Physicists (all concerned) have not understood

light/rays as a matter; they only understand it a form of energy. Physicists instead of understanding light/rays (white-matter) which is occupying the space have speculated dark-matter.

World: From World renowned magazine 'ASTRONOMY', issue November, 2009

What do we really know about Dark-matter?

.....
.....the stuff we see in space— stars, gas and dust— accounts for only 10 percent of the universe's mass. This visible stuff is ordinary matter, and it's made up of protons, neutrons, and electrons. Scientists call ordinary matter "baryonic matter" because protons and neutrons are subatomic particles called baryons. The other 90 percents of the mass is "dark matter....."

Conclusion:

Challenger has concluded that energy (light/rays) is a state of the matter but has an additional property to act as energy:

For this he has given a number of explanations, all stated and illustrated under the illustrated-version of chapter No.1 but here in brief. Only one example given ahead is sufficient to arrive at the conclusion to understand that energy (light/rays) is not merely energy but a state of the matter too.



Light/rays a state of the matter:

Explanation:

(i) How much mass all the Suns/ 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 1/10th 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 tons) of its mass per second due to burning of hydrogen for its nuclear fusion to generate (liberate in space) energy (rays). 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 suns/stars of the Universe would be losing per second (or have lost till date)?

Mass lost by our sun to form energy 4,200,000,000 tons/sec	+ (Plus)	Millions of tons lost mass/sec because of solar wind particles escaping to space	x	100 Billions suns/stars of Milky Way	x	Billions of galaxies of Universe	x	60 seconds	x	60 minutes	x	24 hours of a day	x	365 days of a year	x	Billions of years from the day of evolution	=	? TONS
																	(Where this lost mass equivalent to more than half of the Universe has gone/vanished?)	

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 (rays) and energy (rays) 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 through its rays is not going outside the Universe, but it is within the Universe as media (energy/rays a state of the matter i.e., white-matter) and some bodies are using it (rays i.e., white-matter) to build them selves and also some energy (rays or white-matter) is being accommodated in the expanding Universe.

Conclusion:

All the suns/stars are losing their mass through its rays' particles continuously since their formation billions and billions years ago. If the lost mass or the generated energy (or the created white-matter) would have vanished from the Universe as the Experts believe because of their understanding (false) that energy (rays) 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 concerned understand as energy, it is not merely energy (light/rays) but a state of the matter too.

(ii) Atom bomb: An atom bomb on its explosion produces energy (white-matter); mass of the atomic-bomb matter and the mass of the released white matter to space is the same. If we do not have the means to store or to weigh the released white-matter, it does not mean that released white-matter has no mass.

(iii) Black-holes: An atom on its fusion produces energy (white-matter). White-matter produced can be re-converted to matter (understood state of the matter) but we do not have the means to transform white-matter to understood-matter. However we have the sense to understand from the Nature that Black-holes are converting white-matter to matter.

Black holes; Nature's vast high gravity powered compressors/ compactors pull/suck light-rays (light/rays' particles of white-matter) to transform them to 'Solid' state of matter. This they (Black-holes) could do because light/rays' particles have the mass (or are materialistic). If the rays do not have the mass and are merely energy, Black-holes could not pull/suck or divert the rays from their path to pull/suck them (rays). This proves that light/rays are a state of the matter (white-matter).

(iv) Why light takes time to travel?

Space is filled with white-matter (Ray's particles). There is no place in the Universe where there is no white-matter (particles of rays). White-matter poses resistance; because of the resistance in space, light/rays have restricted-speed. If white-matter does not pose resistance, light/rays would have travelled with infinite speed as illustrated under the Illustrated-version of chapter No.1.

(v) Which factor helps the rocket to move ahead and to turn in the space?

Over the Earth, gushing out jet of hot gases under pressure exert thrust over gas molecules of the atmosphere to provide a push to the rocket but in space jet of rocket-gases put thrust over the white-matter particles to have a push or rocket turns to any side by firing the side rockets (jet of gases) as illustrated under the Illustrated-version in chapter No.1.

(vi) Rays being materialistic, put thrust pressure over the bodies on their escape and also on their strike over the bodies:

This all has been illustrated ahead under MATERIALISTIC UNIVERSE, particularly under solar/planetary working mechanism.

(B) Does a ray of light or of any other kind of the ray propagate in the form of a wave or in the form of stream of particles?

Below stated facts reveal that the Physicists are still in doldrums over this property of light/rays; thus they do not understand correctly the light/rays.

World:

<p>FROM TEXT BOOK OF INTERMEDIATE PHYSICS</p> <p>LIGHT</p> <p>1. What is Light?</p> <p>.....One of the problems of scientists has been to understand the nature of light or light energy. The method of the scientific worker is to perform experiments and to make careful observations about the results of experiments. With the help of the results obtained, reasonable conclusions are made about the nature of material objects. Some such experiments performed with beams of light tell us that light is a kind of wave motion in the medium through which it passes. Other experiments also made on light beams show that light consists of tiny corpuscles called protons.....</p>

<p>From Internet, June 2009.</p> <p>An age-old debate which has persisted among scientists is related to the question, "Is light a wave or a stream of particles?" Very noteworthy and distinguished physicists have taken up each side of the argument, providing a wealth of evidence for each side. The fact is that light exhibits behaviors which are characteristic of both waves and particles. In this unit of <u>The Physics Classroom</u>, the focus will be on the wave-like nature of light.</p> <p>Light exhibits certain behaviors which are characteristic of any wave and would be difficult to explain with a pure particle-view.....</p> <p>Light behaves in a way that is consistent with <u>our conceptual and mathematical understanding</u> of waves. Since light behaves like a wave, one would have good reason to believe that it <u>might be</u> a wave. In Lesson 1, we will investigate the variety of behaviors, properties and characteristics of light which seem to support the wave model of light. On this page, we will focus on three specific behaviors - reflection, refraction and diffraction.....</p>

Challenger:

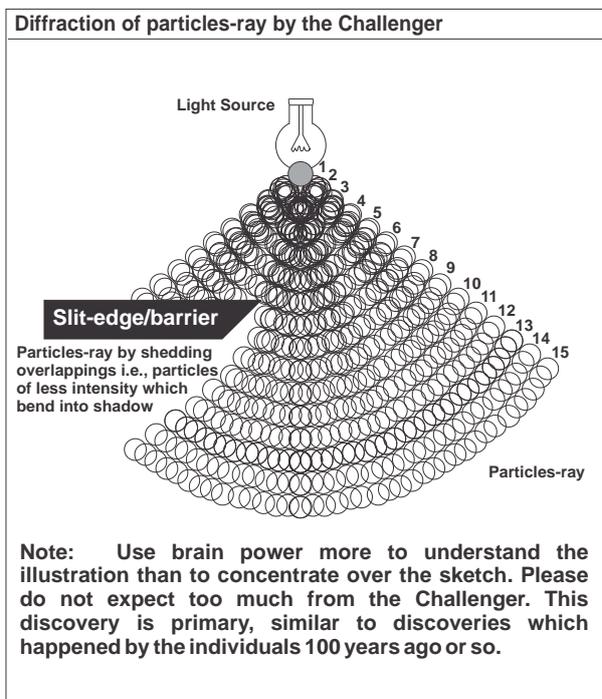
- Contents of the paragraph taken from Internet and exhibited above confirm the tilt of the Physicists towards wave theory because of their mind set trend (prejudice-factor).
- Physicists in the Physics Class-room (not in the Nature's solar system vast laboratory) have understood light as a wave. If they (Physicists who had formulated/accepted wave theory) had/have a little knowledge about the basic Astronomy too and had/have attempted to understand light the way Challenger has understood in Nature's vast laboratory they would have firmly concluded light as a stream of particles.
- It is their (Physicists) conceptual (typical false) and mathematical (another typical false) understanding which had/have made them understand that light is a wave. This all is due to a mind-set error in understanding concept of the wave like Physicists/Concerned had/have understood the concept of light-wave over a paper or over the computer screen only in one phase as stated and illustrated in Illustration-version of chapter No.1. This typical false error to understand wave over paper and computer screen is falsely resulting to understand light as a wave by tallying mathematical calculations (Typical-false) with the actual behavior of light over the laws of reflection, refraction and diffraction.

When light is passed over an edge barrier through a narrow slit, the beam spreads and becomes wider than expected. This fundamentally important observation lends a significant amount of credibility to the wave theory of light. **Like waves in water, light waves encountering the edge of an object appear to bend around the edge and into its geometric shadow, which is a region that is not directly illuminated by the light beam. This behavior is analogous to water waves that wrap around the end of a raft, instead of reflecting away.**

Challenger:

Experts in this experiment too had/have done the mistake while understanding light in the form of particles. They considered particles of the rays with spaces like solar-wind particles but whereas a ray consists of particles, all particles closely touching each other. Further they (Experts) lack knowledge about most of other facts related to light/ray; like property of the particles to shed overlappings.

Light/ray consists of microest spheres, all closely touching each other in a row, Particles are of materialistic nature. Particles have the property to overlap and to shed overlapping to accommodate the expanded space. Speed of the light i.e., of the particles is great. The light i.e., White matter has some properties, similar to the gases as explained under the relevant chapter/paragraph in MATERIALISTIC UNIVERSE. **In brief:** If the gas or water particles (atoms) were not closely touching each other; gas or water flowing at speed in a pipe line would not have created vacuum in the capillary existing over the pipe line. Further, air/water on flowing in a channel would not have wrapped at the edges of the channel.



Light/rays consist of microest spheres and on moving at high speed just over the edge create perfect-vacuum (white matter vacuum but not air vacuum) like water or air molecules would create vacuum while flowing at high speed. Because of the vacuum of white-matter created by the light-particles at step No. 7, the next ray-particle at step No. 8 of the light/ray consisting of microest spheres shed overlapping to fill the white-matter vacuum space over the edge and so on thus light forms diffraction over the edge and bends into the shadow. Further, because speed of the particles is very great, so light/ray would bend a little (not too much as shown over the sketch because of large sized particles) into the shadow to follow flared path.

In addition to the said fact, another second reason as stated here is also in favour of the diffraction of rays on passing through narrow slit or over the edge of the obstacle. The rays'-particle which has just touched the slit or edge, faces resistance towards the side which touches the slit/edge thus ray on leaving the slit/edge would bend towards the resistance side. The particles of the next rays(s) too would experience some resistance because of the particles of the ray(s) which are touching the slit/edge are materialistic-particles like gas or water and are closely touching each other and most of which are overlapped partially with the adjacent

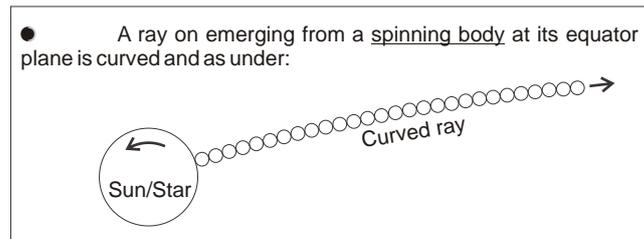
rays' particles. Both the said factors results for the diffraction of rays composed of particles.



Rays being composed of particles and particles on being touching each other, form a curved path at their escape from a spinning body:

Illustration of this fact has been stated under the relevant chapter but in brief as under:

In brief:



As the particles of any ray are closely touching each other and are materialistic thus every emergent particles from a spinning body on its escape rotates a little the particle which is ahead of it. This phenomenon results to bend the ray. We could not see/notice the curve because of fact as illustrated under the relevant chapter and also under the Illustrated-version of chapter No.1 but for the purpose of Astronomy or for the purpose of working mechanism of solar/planetary system these curved rays play prime and effective role as illustrated under TEN-QUERIES AND MATERIALISTIC UNIVERSE.

CHAPTER-1 (Illustrated-version)

STATES OF THE MATTER

(Matter; other than already understood states
i.e., Solids, liquids and gases)

- **Light/rays' particles:**
(Light-rays and all other different kinds of rays like: Radio, X-rays, alpha/ beta/gamma rays etc).
- **The smell/odour particles:**
- **Electron-particles, magnetic-rays' particles and miscellaneous other known/unknown microest-particles of the matter:**

Note: Challenger after declaring his discovery over unique property of light/rays and true working mechanism of solar/planetary system has concluded during more than two years period of personal experience that the concerned and the Physicists in particular are hard prejudice over their understanding about the states of the matter and are in the grip/influence of **snags** thus it is not easy (but not impossible) to make them understand every state of the matter, what has been understood and claimed by the Challenger. His past experience suggests that the concerned should not read illustrated-version of states of the matter prior to understanding true working mechanism of solar/planetary system based over the discovered/understood unique property of light/rays.

CHAPTER-1 (Illustrated-version)

STATES OF THE MATTER

(Solids, liquids, gases, light/rays-particles, odour/smell-particles, electron-particles, magnetic rays-particles and speculated dark-matter.)

MATTER:

- (A) Something about the states of the matter and related to it.

LIGHT/RAYS'-PARTICLES:

- (B) Something about the light/rays and related to it.
- (C) Unique physical properties of light/rays understood from unique photograph of total solar-eclipse.
- (D) Unique physical properties of light/rays understood from galaxies and true working mechanism of solar/planetary system.
- (E) Unique physical property of light/rays understood from some facts and experiments: Is light/rays merely a form of energy or a state of the matter (Materialistic) with additional property to act as energy?
- (F)-(i) Unique physical property of light/rays understood from some facts and experiments: Does a ray of light or of any other kind of ray propagate in the form of a wave or in the form of stream of particles?
- (F)-(ii) Unique physical property of light/rays understood from some facts and experiments: If light/rays are composed of materialistic-particles; then in which physical form a ray of light-particles or particles of any other kind of ray propagate?
- (G) Unique physical property of light/rays that it is a state of the matter has been understood from bio-effect of the rays over living beings.
- (H) Some miscellaneous about light/rays:
- (I) Final conclusion about the understood, concluded and proved unique properties of the light/rays by the Challenger:

ODOUR/SMELL-PARTICLES:

- (J) Unique property of odour/smell that these are particles and a state of the matter has been understood from bio-effect of the smell-particles over living beings.

ELECTRON-PARTICLES:

- (K) Unique property of electrons that these are a state of the matter has been understood from some facts and experiments.
- (L) A unique law over electrons confirms that electrons is a state of the matter.

MAGNETIC RAYS'-PARTICLES:

- (M) Unique property of magnetic-rays that these are particles, thus a state of the matter has been understood from some facts.
- (N) Unique property of magnetic-rays that these a state of the matter has been understood from their bio-effect over living beings.
- (O) A unique law over magnetic-rays confirms that magnetic-rays is a state of the matter.

SPECULATED DARK-MATTER:

- (P) Unique property of light/rays understood from true working mechanism of solar/planetary system, galaxy system and Universe has proved that there is no dark-matter and dark-energy; Physicists have falsely understood dark-matter which in fact is white-matter (light/rays' particles and all ejected particles by the Sun/stars/bodies are white-matter).

MATTER:

(A) Something about the states of the matter and related to it.

World:

World has understood three states of the matter i.e., Solids, liquids and gases. Now the modern Physicists by understanding total mass of the Universe have speculated another state of the matter, called as Dark-matter.

Challenger:

Definition of the states of the matter never remained firm with the advancement of the knowledge. In pre-historical times, gas might not be understood as a state of the matter. Presently every science-concerned person understands that smell (odour) is due to the particles of the smell (chemicals) released by the decomposition from the present states of compounds but till to date the Physicists (World) have not included the smell particles to a state of the matter. Physicists (The concerned) by not understanding properly the light-rays and also other kind of the rays (e.g. Radio-rays, X-rays, alpha/beta/gamma-rays etc) are leading the World-knowledge towards wrong direction and depriving the human from various aspects as stated ahead under the relevant chapters/paragraphs.

Challenger has observed, concluded and proved that particles of the light-rays and all other kinds of the rays (Radio-rays, X-rays, alpha/beta/gamma-rays etc), magnetic rays' particles and electron-particles are a state of the matter and called it a Fourth State Of the Matter (FSOM). And further he has also understood particles of the smell as another state of the matter and called it Odd State Of the Matter (OSOM). For the purpose of understanding states of the matter, he has called matter in any form other than solid, liquid and gas as **white-matter** except odour/smell. There is no dark-matter; dark matter has been falsely understood because of the fact that the Physicists, thus the concerned have not yet been able to understand the said matter (i.e., white-matter) as a state of the matter.

LIGHT/RAYS'-PARTICLE S:

(B) Something about light/rays and related to it:

Subject over light from its early history remained under controversies and till to date light is not properly understood. Now we have the means and knowledge to understand light and other rays to its greatest extent but due to numerous **snags** (as illustrated under the relevant chapters) the concerned, particularly the Experts are at bay from understanding light/rays. The greatest snag among so many other great-snags is the existing knowledge which has tempered every concerned brain with the snag 'Prejudice'. It is not easy to overcome from this snag and also from some other snags, the only way to make some dent in this snag (Prejudice) is to understand Solar system (Moon and planetary system) based over the **unique** property of light/rays as understood by the Challenger.



Physicists and Astronomers relationship?

● LIGHT (RAYS): A CONCEPT OF THEORIES:

After discarding Newton's Corpuscular Theory, Physicists adopted wave theory. During 20th century, Physicists discovered that wave theory has failed to make them understand some set of phenomena, thus they are now accepting a ray of light as a wave and particle too besides advocating for a new theory called Quantum Theory.

In addition to above several other scientific Theories have been put forward to try to explain the light but still Physicists are

trapped in 'Theories' related to light and rays because of their wrong rather false understandings. It seems very difficult to pull them out from the Theories concept regime to the 'Fact-zone'.

Because Physicists have lost their brain virginity and thus are trapped in the Theories and are far away from the Facts; so the fate of Astronomers is in the dark till the Physicists understand correctly that what is light/rays? Or understand Challenger's concept (fact) i.e., 'MATERIALISTIC UNIVERSE'.

● Now in this modern world Physicists are suppressing the Astronomers that are why Astronomy has not come out from the clutches of the old wrong and false speculations because they can not think at their own. (Physicists cum Astronomers too behave the Physicists' way because Physicists are in majority and are setting the mind set trend in thinking because of their supremacy power over the absolute-Astronomers). This snag can be well understood by the following illustration.

In the past, Physicists after studying matter under microscope have forwarded their understandings about the light or rays to the Astronomers. Astronomers failed/fail to understand solar system (Astronomy) on the basics of understanding forwarded by the Physicists that rays are merely a form of energy and move/travel in a wave motion; thus they (Astronomer) are still trapped under the centuries' old false speculations. but whereas Astronomers should have understood the rays by observing solar system and should have forwarded their understanding to the Physicists to accept their findings that the rays are composed of microest spheres, all spheres are closely touching each other to form a ray and the ray behaves like materialistic thus the rays is a state of the matter besides acting as energy. Physicists should have accepted the finding and should have studied further by retaining the forwarded basic understanding given to them by the Astronomers. (**Physicists/Astronomers would also conclude the same results of rays as stated after completely going through all the pages**)

Conclusion:

Observation of light by the Physicists under microscope or under any device can be wrong and false but conclusion about rays derived by observing solar system and by applying the same conclusion over each and every individual solar body (Sun, comet, planets, satellites, asteroids, particles and dust etc) which resulted to tally with its each and every function/phenomenon can not be wrong. So Physicists must understand solar system (functioning of all the bodies) to understand rays and thus states of the matter too.

● For an Astronomer, to understand Astronomy, physical properties i.e., shape and mass of the rays emitted by the suns/stars/bodies are important, but where as for the Physicists, they are least concerned for this property. A bad luck descanted over the human through the Physicists who adopted measuring unit of the energy (rays) other than the mass and solved their purpose to proceed ahead with their research. Bad effects gone deep further by understanding the shape of rays by the Physicists; they instead of understanding the ray, consisting of microest particles in a row by closely touching each other, understood the ray as travelling in a wave motion. Bad luck got another stamp by sheer chance that the scientific calculations for reflections/refraction/diffraction etc for the rays are the same by considering a ray as a wave by considering only one phase of the wave as illustrated ahead.

● For the Physicists it has little concern whether the rays are understood as a state of the matter or given a separate classification. For study and research purpose for the Physicists it is better to keep the rays in a separate classification from the known three states of the matter (solid/liquid/gas). But for the Astronomers this classification forms a mammoth wall because of the fact that what so ever suns (suns/stars/bodies) emit/radiate by losing their mass, universe keeps the mass constant. Hence, unless we understand all emitted/radiated rays (energy) by the heavenly/celestial bodies a state of the matter we can not understand correctly the Astronomy.

● For the Physicists thrust of the rays has little concern, their purpose is solved by the units watt/volt/calories etc, but whereas for an Astronomers only thrust property of the rays has concern. Physicists would never give a second thought to understand the shape/structure of the rays because their purpose has been fully solved by understanding the ray in the form of a wave through it may be false. But for the Astronomers, a ray in the form of a wave would not cause any impact/thrust over any celestial body and also would not be understood to form a curve by the ray on being ejected from a spinning celestial body because a ray in wave motion is not materialistic (it is only an energy).

- For an Astronomer, energy has no or little concern but whereas for the Physicists it has immense value to understand. Administration and people too are tilted towards the research over energy, thus Physicists have their say over the Astronomers.

- Physicists are peeping deep into the atom to relate matter and energy relationship thus defined/define the property of a ray by considering it as energy but whereas Astronomers have no or little concern to it. Hence study of the matter by the modern Physicists has gone deep and split to various off shoots which confuses and baffles the Astronomers and general concerned public because it is over the false base.

Just open the Internet to get answer that what is a matter and energy? The concerned would find him/her self lost in the jungle but getting no firm answer. Some where it is stated that light has a mass and at most other references it is stated that it has no mass and similarly another reference states that mass can be converted to energy and vice versa but no where it is stated that the lost mass by the Sun by forming energy (rays); the rays too have a mass. **Understanding of the matter (light/rays) in this modern world has become so confusing that no one can think or dare to write the way Challenger has observed, concluded, illustrated, proved and claimed (challenged).**

- Physicists by speculating Dark-matter but by not understanding light/rays as white-matter are keeping the World in dark.

★

Why the World did not include light/ rays etc in the category of matter?

Scientists of the yester-years, when Science was just at infant-stage, they could not understand light/rays as a matter. They understood light/heat-rays as power or later by the scientists as energy. After detonating atom-bomb, World understood matter and energy (rays) relationship. Further, Physicists and the Astronomers know that the stars (Suns) are converting matter to energy (rays) and energy (rays) are being compacted to form matter by the black-holes.

From the said known facts (conversion of matter to rays and again conversion of rays to matter), is it not surprising that till to date the Physicists (The concerned) have failed to understand light/rays in the form of matter and are falsely speculating Dark-matter in space. Search by the Physicists for dark-matter in space is similar, rather the same like search in space for the God in the form of a human shaped-God.

(C) Unique physical properties of light/ rays understood from galaxies and from true working mechanism of solar planetary system:

Understanding (confirming) true Astronomy basics from the lay out of the galaxies:

Galaxy (Milky Way) as seen from above the Pole:



Note: No real photograph of our galaxy (Milky-Way) and of our solar system can be taken from above the Pole by any means by the Experts because our galaxy is in an almost flat disc. Being too wide, no man-made satellite/ space-vehicle can go above the Pole of our galaxy Milky Way to take photograph from there. However photographs of other bodies and clubbed formations (Galaxies, Black holes and Star/Sun systems) can be taken from above/side of the poles but most of the photographs which we see over TV/ Internet/ information media, that all are computer animated or computer modified photographs.

(Note: Use sense to understand whether the photograph is real one or computer animated)

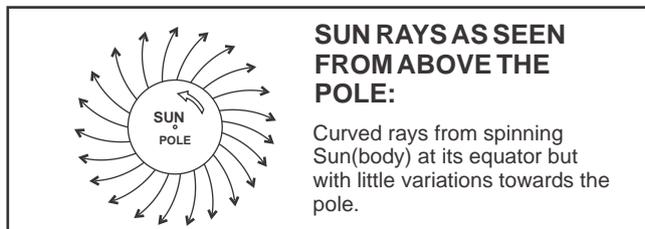
We cannot take photographs of the Sun from above of its any Pole, perhaps no one has yet conceived this desire and further it is not possible to take photograph of our own galaxy (Milky Way) from above its central clubbed massive stars' cluster. However we have got photographs of other galaxies, particularly of spiral-galaxies which are far away from us.

The pattern of spiral galaxy is due the curved rays emerging out from the central massive clubbed stars (or cluster of stars) as explained under the chapter: GALAXY.

★

Physical unique properties of the light-particles as understood/ Discovered and proved by understanding true working mechanism of solar system by the Challenger.

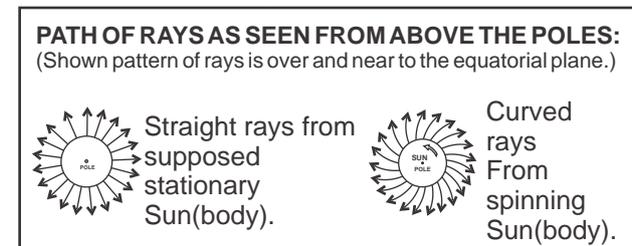
Brief explanation over the unique property of light/rays understood/discovered is in the chapter over 'Ten queries' and illustration are over the relevant chapter in 'MATERIALISTIC UNIVERSE'. Here only the extract/ conclusions have been given.



If we visualize rays of the Sun from above its any Pole, the rays would form a pattern similar to the formation of spiral-galaxies. Rays emerging from the Sun at its every plane which is parallel to the equatorial plane of the Sun would form slightly different pattern. All the rays which are emerging from the North and south hemispheres of the Sun (or any spinning body) would form a mirror reflection pattern over its equatorial plane.

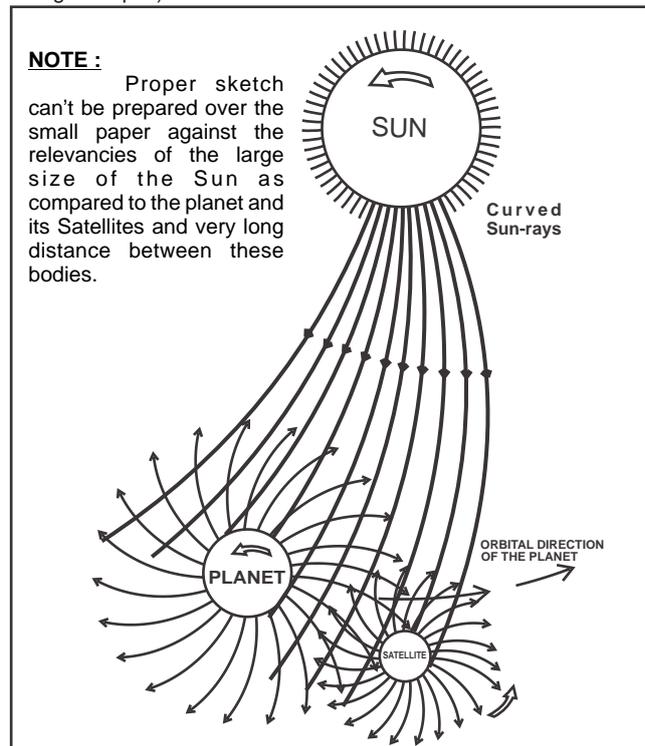
Some of the Facts about the rays among many have been stated below; just for the reference about the discovery over unique property of rays and true working mechanism of solar system but explanation is over the relevant chapter.

Fact: Materialistic-rays (because of their specific physical properties) on emerging from a spinning-body do not travel straight but adopt a curved/spiral path (Spiral-path is noticeable only after the rays have travelled very long distance).

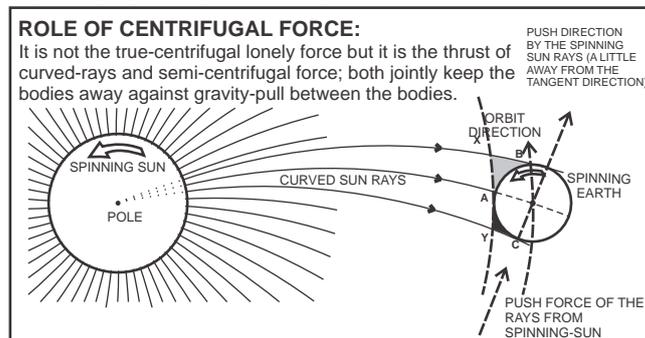


Fact: Thrust of the rays keep the opposite adjacent (effective range bodies) away. Rays from both the opposite bodies act like repulsion rays emerging from similar poles of the magnets to keep the bodies further away.

Fact: Back thrust of curved rays on emerging from the body results to spin it. Curved rays emerging from a spinning body on its strike over the adjacent (effective-range) bodies results to provide a pre-spin on striking that too in its own direction of spin. (Some factors existing over the body on which curved rays are striking results to nullify its spin or curved rays on striking over the body results to give retrograde spin.)



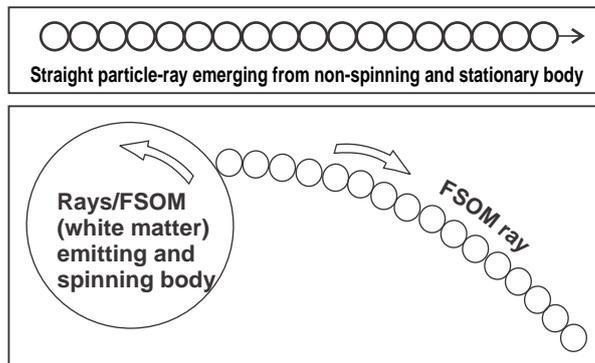
Fact: Further, curved rays emerging from a spinning body act by striking over a side of the body like fine materialistic curved bristles similar to moving spokes of a spinning-wheel resulting to provide a push to the striking adjacent (effective-range) body to move it in an orbit. **This act to push (move) the body straight (slightly away from the tangent) by the curved-rays results to generate semi-centrifugal force to keep the body little further away than being kept away by the repulsion of rays.**



Some more facts with the some already stated:

Working mechanism of solar/planetary system as illustrated has proved that.

Light/ray is composed of microest spheres; all spheres are touching closely each other to form a row. Every different colour ray has different sizes of the spheres (particles). Particle-ray of the understood property on emerging from a spinning body cannot move straight but would form a curve.



- Light/rays and Universe is materialistic.
- Suns (trillions and trillions of suns/stars/bodies) are losing their mass due to release of rays but as the mass of Universe is constant so rays have mass and are materialistic.
- Universe/space is not empty (absolute-nothing) it is filled with FSOM/white-matter as media.
- Light/rays particles being materialistic, the density/pressure of rays (white-matter/FSOM) over/near the Sun in solar system is greatest than at its far off end (least effective zone). This is like air pressure/ density being greatest over the Earth than at far off above the Earth.
- Light/rays are composed of spherical-particles.
- Particles of the rays are closely touching each other. Physical shape of particles is such that on formation of a ray by the particles, property of the ray tally with the properties/laws understood by understanding (falsely) the ray travelling in wave motion. Discovered unique property of rays observes all laws of reflection, refraction etc.
- Materialistic-rays (because of their specific physical properties) on emerging from a spinning-body do not travel straight but adopt a curved/spiral path (Spiral-path is noticeable only after the rays have travelled very long distance).

- Curved-materialistic-rays on emerging from North and South hemispheres of spinning body form a specific-pattern (mirror reflection/image pattern) over the plane passing through its equator.
- This mirror reflection/image pattern formed by the materialistic-curved-rays become a trap-zone to trap the bodies/objects/particles/dust etc, thus all the bodies get trapped in a flat-plane.
- Materialistic-curved-rays have the thrust power over the body on its leaving and also have thrust power on their strike over any other adjacent (effective range body/bodies). Magnitude of the thrust by the materialistic-curved-rays is not feeble but great; it is variable; Sun-rays has the greatest thrust over the Sun or near to it and the least at its farthest end of solar system. Besides thrust power, rays i.e., White-matter too exert pressure like air pressure.
- Two spheres (bodies) of the same density (mean density) but of different diameters would have different resultant-magnitude of thrust by the striking rays. Thrust over the body would be as per its surface area and mass ratio; thus smaller body by the thrust of rays would be far away from the Sun than the big.

Thrust of the rays keep the opposite adjacent (effective range bodies) away. Rays from both the opposite bodies act like repulsion rays emerging from similar poles of the magnets to keep the bodies further away.

- Back thrust of curved rays on emerging from the body results to spin it. Curved rays emerging from a spinning body on its strike over the adjacent (effective-range) bodies results to provide a pre-spin on striking that too in its own direction of spin.
- Further curved rays emerging from a spinning body act to push by striking over a side of the body like fine materialistic curved bristles. This act is similar to moving spokes of a spinning-wheel resulting to provide a push to the striking adjacent (effective-range) body to move it in an orbit.



(D) Unique physical property of light/rays understood from some facts and experiments: Is light/rays merely a form of energy or a state of the matter (Materialistic) with additional property to act as energy.

Light-rays and all other kinds of the rays like Radio-rays, alpha/beta/gamma-rays etc which travel at the speed equivalent or comparable speed with the light-rays all are state of the matter. The following facts prove so.

1. Already stated fact understood from unique total solar-eclipse photograph which shows a specific pattern (mirror-reflection pattern) of the rays proves that the rays are materialistic. Rays could not form mirror reflection pattern unless the particles of the rays are materialistic. Only the rays of materialistic-spherical-particles by closely touching each other could form this pattern while escaping from a spinning body (Sun).
2. Already stated fact that the rays act to perform major & vital functions for the working of solar/planetary system and the Universe-system which has been illustrated under the relevant chapters and also under chapter 'TEN -QUERIES'. Explanation proves that the rays are materialistic.
3. **Is light/rays merely a form of energy or a state of the matter (materialistic) with addition property to act as energy?**

World:

FROM NEWSPAPER UNDER SCIENCE COLUMN, YEAR-1997

Light Energy



In school I learnt that all matter has to be a solid, liquid or gas. The other day I was watching, sunlight is neither a solid, liquid nor gas. Wondered how it could be so.

It is true that all matter in the universe is in one of three states - solid, liquid or gas . But light is not matter.

Matter is in a constant state of motion and motion requires energy. There are several forms of energy and light is one of them.

Matter can get converted into energy, as it happens in the case of stars but once the conversion has taken place it will neither have the properties of matter, nor behave like matter.

FROM TEXT BOOK OF INTERMEDIATE PHYSICS

LIGHT

What is Light?

Light is the agency by which we see things. The sensation of sight is produced by rays of light entering the eye and forming an image of external objects on a sensitive layer called retina at the back of the eye. Light however exists in the world irrespective of any observer and is an important phenomenon in nature, in fact light is one form of energy, the various other forms being heat, chemical energy, electrical energy and mechanical energy. **One of the problems of scientists has been to understand the nature of light or light energy.**

FROM INTERNET DATED 06.10.2009

What form of matter is light? Or is it?

.....

Hope that is not too confusing.

Note: Illustration stated over the Internet is confusing with no firm answer as admitted, thus not exhibited. Better one should read over the Internet.

Challenger:

From centuries Physicists have formulated a number of theories over the subject MATTER and LIGHT. Every theory fitted/fits (falsely but understood as correct) some where but failed/fails to give most answers because a theory is not a **fact**. Now the Physicists have become prejudice over these theories and have no time to give a rethought over these theories. Or in other words, Physicists do not want to discard/shed any of the theory because every theory fits (falsely but understood as correct) some where, thus while defining status of light/rays that is it a matter or not, they (Physicists) give confusing statements/ illustrations with no firm answer. A below exhibited part taken from World-renowned magazine (ASTRONOMY) over the subject Dark-matter has provided the proof that till to date the Physicists (all concerned) have not understood light/rays as a matter; they only understand it a form of energy.

World: From World renowned magazine 'ASTRONOMY', issue November, 2009

What do we really know about Dark-matter?

.....
the stuff we see in space— stars, gas and dust—
 accounts for only 10 percent of the universe's mass. This visible
 stuff is ordinary matter, and it's made up of protons, neutrons, and
 electrons. Scientists call ordinary matter "baryonic matter"
 because protons and neutrons are subatomic particles called
 baryons. The other 90 percents of the mass is "dark matter.....

Conclusion:

Challenger has concluded that energy (light/rays) is a state of the matter but has an additional property to act as energy:

For this he has given below a number of explanations but only one following example given below is sufficient to arrive at the conclusion to understand that energy (light/rays) is not merely energy but a state of the matter too.

4. Light/rays a state of the matter:

Explanation:

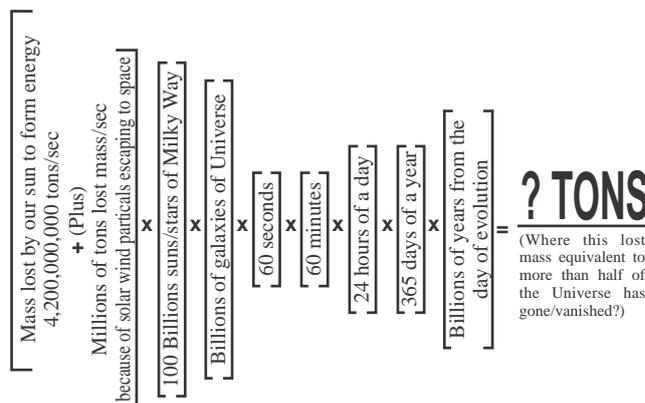
How much mass all the Suns/ Stars are losing every second?

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 1/10th 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 tons) of its mass per second due to burning of hydrogen for its nuclear fusion to generate (liberate in space) energy (rays). 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 suns/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 (rays) and energy (rays) 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 through its rays is not going outside the Universe, but it is within the Universe as medium (energy/rays is a state of the matter i.e., White-matter, which forms the medium) and some bodies are using it (rays i.e., white-matter) to build them selves and also some energy (rays or white-matter) is being accommodated in the expanding Universe.

Conclusion:

All the suns/stars are losing their mass through its rays' particles continuously since their formation billions and billions years ago. If the lost mass or the generated energy (or the created white-matter) would have vanished from the Universe as the Experts believe because of their understanding (false) that energy (rays) 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 concerned understand as energy, it is not merely energy (light/rays) but a state of the matter too.

5. The following few observations would make us understand further that energy is a matter, because it behaves like a matter.

- **Atom bomb:** An atom bomb on its explosion produces energy (white-matter); mass of the atomic-bomb matter and the mass of the released white matter to space is the same. If we do not have the means to store or to weigh the released white-matter, it does not mean that released white-matter has no mass.

- **Black-holes:** An atom on its fusion produces energy (white-matter). White-matter produced can be re-converted to matter (understood state of the matter) but we do not have the means to transform white-matter to understood-matter. However we have the sense to understand from the Nature that Black-holes are converting white-matter to matter.

Black holes; Nature's vast high gravity powered compressor/ compactors pulls/sucks light-rays (light/rays' particles of white-matter) to transform them to 'Solid' state of matter. This they (Black-holes) could do because light/rays' particles have the mass (or are materialistic). If the rays do not have the mass and were merely energy, Black-holes could not pull/suck or divert the rays from their path to pull/suck them (rays). This proves that light/rays are a state of the matter (white-matter).

Why light takes time to travel?

Concerned understand that stars, planets, Sun, black-holes and other objects only are the state of the matter and rest of the space is empty (no matter zone). As already stated that perfect-vacuum (absolute nothing zone) exists no where, empty spaces are filled with the Fourth State Of Matter i.e., light and other rays (white-matter). Light and other rays have a specific velocity; rays do not travel in zero time. This all is due to the resistance of the medium, which light and other rays'-particles have to face while travelling through FSOM (white-matter) filled Universe. Had there been no resistance or perfect-vacuum (no matter), light and other rays would have traveled in zero time.

• Which factor helps the rocket to move ahead in the space?

We know and understand that a rocket moves ahead under the principle that action and reaction are equal and opposite. Gushing out jet of hot gases under pressure exert thrust to the rocket, which moves ahead over the earth' atmosphere up to some distance due to thrust by the jet of gases over the molecules of air/gases in the media, but after this air zone space is not empty but has the FSOM (white-matter) media. But no one has realized that in space rocket moves due to the media (FSOM or white-matter) which helps the jet gases to exert thrust. In the absence of any media, value of any magnitude of jet of gases would be nil and a rocket could not move ahead; but it moves ahead in space. So space beyond the periphery of atmospheric gases is not empty, but is filled with FSOM i.e., a matter (white-matter).

To understand the said principle of the rocket with which it moves ahead, certain facts need recollection in mind, which are stated below :-

- Air is denser at earth surface and as we move upward its density keeps on decreasing till it becomes nil. Above this space it is supposed to be containing nothing (but Challenger has concluded that the space is filled with FSOM white-matter).
- Gravity pull force towards the earth's centre keeps on decreasing as we move upward and at some stage it is reduced to zero (not actual zero, but to micro).
- While running a race, we require initial powerful thrust. If a solid fixed object with proper degree is placed below the foot/feet, one can have better initial thrust. More rigid/solid the object, greater the thrust.
- Bullet from a gun/pistol goes ahead due to the solidness of the chamber, which surrounds the hot gases, if the chamber is made of any elastic material, speed of bullet could be lesser due to lesser thrust by the expanding gases.

Explanation:

When a rocket takes off from the earth's surface, atmospheric gases which surround the jet of gases of the rocket acts as a chamber of the gun/pistol and helps the expanding jet gases to put a thrust on the rocket, so that it can move ahead. Variable density of air from earth surface to the space, pose no problem in thrust force, because when gravity is more, air is denser and when air is thinner/rarer, gravity force is also very much less. Now when rocket moves to space, which contains no traces of air molecule but contain FSOM particles, where (FSOM) has density in microns. Motion of rocket becomes feasible in the micro-denser media (FSOM), due to the earth gravity force also left in microns. In space FSOM particles acts as a chamber of the gun/pistol for the expanding gases to put thrust on the rocket, so that it can move ahead. Had there been nothing

(absolute nothing), no movement was/is possible. (Under no FSOM particles zone, matter of the rocket and gases would get fusion to transform into FSOM particles to fill the empty space; explanation is under the relevant paragraphs).

Persons not related to the space-rockets, generally consider that rocket beyond the earth atmosphere in zero gravity zone moves due to the momentum gained. And beyond this it moves ahead by the pull of the other heavenly body towards which is heading.

Gravity pull/force of the celestial bodies effect the movement of the rocket but by the burning of the gases it maintains desired speed and can change its direction by firing a side rocket. A rocket by firing its side jets can not turn if the space is not materialistic. Thus space is filled with some matter i.e., FSOM (white-matter) particles.

• Why bumble-bee flies, although its body-weight is more as per its wing surface area?

Scientist could not find the cause that how a bumble-bee flies, because it has lesser wing surface area to lift the body weight. They stated that it flies due to its sheer will. But this is no explanation as regard to science. Author has observed by linking the cause of flying of a rocket in space that when a jet of gases can have thrust by hitting the space filled with light and cosmic rays' particles then why can't an insect (Bumble-bee) lift the marginal excess weight of its body by emitting a jet of FSOM (white-matter) rays from the body over the air & FSOM in the atmosphere. It might not be possible to detect the emitting of such FSOM rays by the bumble-bee, because such type or similar types of rays are already present every where and these are even in every molecule or atom. Future study and research may detect the jet of FSOM particles rays emitted by the bumble -bee.

Another proper and true cause of such emitting of FSOM rays by the bumble-bee has strength because this insect generally moves/sits over the flower-nectar. Flower-nectars may require such type of FSOM rays to remain disease free or healthy. Bumble-bee's unique property was known to ancient people that it has a soul (or some thing unique in it).

• Some spiders too at some occasions use FSOM particles rays' jet:

Author has observed and seen once a spider using FSOM particles jet power to fly horizontally to fix its thread/cord over a point, so that it can mesh/weave its net. It uses this power only once to tie a first cord horizontally or it uses this power, when it has no alternative to fix cord horizontally. This needs a study.

During the year-2004, Author noticed a spider in bath-room. It was descending very slowly vertically and later walked on floor. Author checked the space through which it descended. There was no cord or thread which it might have used to descend. It must have used its FSOM rays power to descend slowly.

Again during the year 2008, Challenger has noticed a spider shooting horizontally without any help of the cord to pick up a branch of the tree.

• Emitting of FSOM rays by the human body:

Discovery (understanding) of FSOM rays would be helpful in solving most of the mysteries created by some persons due FSOM rays emitted from their body or from a body part (Brain, head, forehead, eyes and heart etc.). Discovery would also lead to know most of the health and love-attraction secrets.

Human body or its organ can be tuned to some acts and it might also be possible that these can produce FSOM rays too at the command of the person but such acts need concentration of mind and devotion to the feat, which the present-world persons lack and the coming generations would be far-far away from the present ones. So now one can only understand or may produce simple FSOM rays but might not be able to produce states of FSOM rays like what our ancestors had done. FSOM rays have thousands of varieties like other states of matter, each with a different property.

On Television-Channel 'Discovery' it was telecast on 15.08.2004 that some persons had the capability to heal some kinds of body diseases and disorders, but the scientists disagree to its effects. They did not know or understand FSOM rays and its value. Had they knew, they instead of disagreeing, would start finding the reasons and the kind of FSOM rays emitted by their bodies. A ray can heal only if it has the property to react chemically; Rays' particles heal/damage by their

chemical reaction thus rays are materialistic.

• Thermal expansion:

When we heat a matter (solid/liquid/gas), it expands. We call it a thermal expansion. When we inject/fill a gas to an expandable matter like rubber i.e., balloon/bladder, it swells or expands.

Similarly when energy i.e., heat (FSOM particles) are injected to a matter, it expands due to the FSOM particles. On cooling or releasing back FSOM particles to the atmosphere/space, matter shrinks/contracts like rubber balloon. So heat-rays (FSOM) particles behave like air molecules and acts as a matter.

When we inject more FSOM (heat-particles) to a matter till atoms are saturated with its fill, matter melts to behave like liquid and liquids start behaving like gas due to evaporation. Injected FSOM particles enter in between the bonds of the atoms to loosen their adhesion to behave as said. Atoms float over the FSOM particles like micro spheres/particles as if atoms have been put in an oil or water molecules. So this also justifies that heat-rays (FSOM particles) is a matter.

Conclusion:

It would be proper, if instead of calculating thermal expansion, we should calculate this measurement as FSOM-rays' injection expansion.

- A solid by heating can be converted to liquid and liquid to gasses. Gases on heating (fusion) can be converted to white-matter. Our Sun is converting gases to white-matter (rays). Formation of our Universe suggests that white-matter formed the gases and solids. So this cycle suggests that white-matter (rays) is a state of the matter.

- Matter has the mass, thus we can weigh it. We can weigh the liquids and gases in the containers made of solids but we can not weigh the liquids in a container made of liquid and also can not weigh the gas by making a container of the gas. As the solid container is made of white-matter (sub atomic particles of the matter) so white-matter finds an escape from the solid-container thus we cannot weigh it by any means. If do not have the means to weigh white-matter, it does not mean that white-matter (rays) is not a matter.

- Different states of the matter react to form compounds. Similarly light-rays and other different kinds of the rays react with the bio-matter to form complex-compounds. So light-rays are not simply a form of the energy but are a state of the matter.

- There would be more reasons to justify that energy (rays) is a state of the matter (white-matter) after going through the chapter **DARK-MATTER**.

(E)-(i) Unique physical property of light/rays understood from some facts and experiments:

- Does a ray of light or of any other kind of ray propagate in the form of a wave or in the form of stream of particles?

- Has any one seen a ray of light travelling in a wave motion?

No, it (Ray of light of any other kind of ray) has never been seen and could never be seen under any microscope or instrument and also can never be photographed to understand the ray that how it propagates in the form of a wave or in a row of particles. This fact, that how a ray of any kind propagates can only be understood as stated under the relevant paragraphs/chapters of MATERIALISTIC UNIVERSE.

World:

FROM PHYSICS TEXT BOOK

LIGHT**1. What is Light?**

Light is the agency by which we see things. The sensation of sight is produced by rays of light entering the eye and forming an image of external objects on a sensitive layer called retina at the back of the eye. Light however exists in the world irrespective of any observer and is an important phenomenon in nature, in fact light is one form of energy, the various other forms being heat, chemical energy, electrical energy and mechanical energy. **One of the problems of scientists has been to understand the nature of light or light energy.** The method of the scientific worker is to perform experiments and to make careful observations about the results of experiments. With the help of the results obtained, reasonable conclusions are made about the nature of material objects. **Some such experiments performed with beams of light tell us that light is a kind of wave motion in the medium through which it passes. Other experiments also made on light beams show that light consists of tiny corpuscles called photons.**

2. Light travels in a straight line

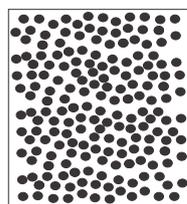
When a ray of light passes through a uniform medium it travels along a straight path. This property of light is called "Rectilinear propagation of light."

i History of arguments between the Physicists that light is a stream of particles or a wave?

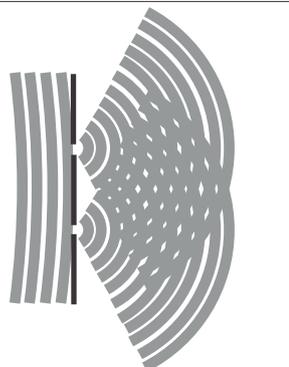
World:

The exact nature of visible light is a mystery that has puzzled man for centuries. Greek scientists from the ancient Pythagorean discipline postulated that every visible object emits a steady stream of particles, while Aristotle concluded that light travels in a manner similar to waves in the ocean. The essence of the dispute established by the Greek philosopher's remains to this day.

From Internet, September 2009

Light as particles waves

Particules



Waves and Huygens wavelets

Note: See proper sketch over the Internet that how World understands.

One point of view envisions light as wave-like in nature, producing energy that traverses through space in a manner similar to the ripples spreading across the surface of a still pond after being disturbed by a dropped stone. The opposing view holds that light is composed of a steady stream of particles, much like tiny droplets of water sprayed from a garden hose nozzle.

In the early eighteenth century, the argument about the nature of light had turned the scientific community into divided camps that fought vigorously over the validity of their favorite theories. One group of scientists, who subscribed to the wave theory, centered their arguments on the discoveries of Dutchman Christian Huygens. The opposing camp cited Sir Isaac Newton's prism experiments as proof that light traveled as a shower of particles, each proceeding in a straight line until it was refracted, absorbed, reflected, diffracted or disturbed in some other manner.

Huygens' theory of light refraction, based on the concept of the wave-like nature of light, held that the velocity of light in any substance was inversely proportion to its refractive index. In other words, Huygens postulated that the more light was "bent" or refracted by a substance, the slower it would move while traversing across that substance. His followers concluded (defended particle theory) that if

light were composed of a stream of particles, then the opposite effect would occur because light entering a denser medium would be attracted by molecules in the medium and experience an increase in speed, rather than a decrease. The devices of the period to measure speed of light were not up to the task, light appeared to move at the same speed regardless of the material through which it passed. Over 150 years passed before the speed of light could be measured with a high enough accuracy to prove that the Huygens theory was correct.

Despite the highly regarded reputation of Sir Isaac Newton, a number of prominent scientists in the early 1700s did not agree with his particle (corpuscular) theory. Some argued that if light consisted of particles, then when two beams are crossed, some of the particles would collide with each other to produce a deviation in the light beams. Obviously, this is not the case, so they concluded that light must not be composed of individual particles.

Much more took place in between the said period to prove that light is a wave.

During the 20th century Scientists came to the conclusion that both theories are correct and concluded that light has dual personality of the wave and particle too.

Challenger:

Challenger has given the explanation and his conclusions over the said past history to make the concerned understand/aware that what is correct: Paragraphs in the box are the repeats from the said history followed by the explanation by the Challenger over these paragraphs.

History: The exact nature of visible light is a mystery that has puzzled man for centuries. Greek scientists from the ancient Pythagorean discipline postulated that every visible object emits a steady stream of particles.

Challenger: Greek scientists were the correct.

History: While Aristotle concluded that light travels in a manner similar to waves in the ocean.

Challenger: Aristotle was wrong.

History: The essence of the dispute established by the Greek philosopher's remains to this day.

Challenger: Dispute still exists but the Modern-era Physicists to conceal their in-ability to understand light/rays have started advocating that light/rays has dual personality/characteristic of the wave and particles too.

History: One point of view envisions light as wave-like in nature, producing energy that traverses through space in a manner similar to the ripples spreading across the surface of a still pond after being disturbed by a dropped stone.

Challenger: Those who advocate so are wrong.

History: The opposing view holds that light is composed of a steady stream of particles, much like tiny droplets of water sprayed from a garden hose nozzle.

Challenger: Opposing parties are always understood as not correct to their views thus the World tilted towards wave theory. Further those who supported particle theory because of the opposition they did not proceed ahead in their thoughts that if a ray is consisting of particles then how it would propagate, thus they remained at first-rough observation level that light is a steady stream of particles, much like tiny droplets of water sprayed from a garden hose nozzle.

History: In the early eighteenth century, the argument about the nature of light had turned the scientific community into divided camps that fought vigorously over the validity of their favorite theories. One group of scientists, who subscribed to the wave theory, centered their arguments on the discoveries of Dutchman Christian Huygens.

Challenger: Theory of the Huygen that light propagates in the form of a wave is wrong as stated and proved ahead.

History: The opposing camp cited Sir Isaac Newton's prism experiments as proof that light traveled as a shower of particles, each proceeding in a straight line until it was refracted, absorbed, reflected, diffracted or disturbed in some other manner.

Challenger: Sir Isaac Newton was correct to his observation over corpuscular theory that light consists of particles but he failed to prove or make his theory accepted because of his wrong understanding that light particles would be attracted by the medium matter to make the light ray propagation faster.

History: Huygens' theory of light refraction, based on the concept of the wave-like nature of light, held that the velocity of light in any substance was inversely proportion to its refractive index. In other words, Huygens postulated that the more light was "bent" or refracted by a substance, the slower it would move while traversing across that substance. His followers concluded (defended particle theory) that if light were composed of a stream of particles, then the opposite effect would occur because light entering a denser medium would be attracted by molecules in the medium and experience an increase in speed, rather than a decrease. The devices of the period to measure speed of light were not up to the task, light appeared to move at the same speed regardless of the material through which it passed. Over 150 years passed before the speed of light could be measured with a high enough accuracy to prove that the Huygens theory was correct.

Challenger: Because of the wrong understanding with the Sir Isaac Newton and also with the past-era Physicists that light-rays if were consisting of particles would be attracted by the medium-matter thus light-ray would travel faster in denser medium. This wrong understanding had given the upper hand/support (false) to the Huygens to get accepted his theory over the wave motion.

Challenger conceived a query that why Newton and other Physicists of that era were of the opinion or with the knowledge that light-rays if formed of particles (matter) are being attracted by the matter of the medium from which light-rays propagate? Further as per their knowledge denser the medium, greater the attraction magnitude thus greater the deviation on refraction. Answer to this query has been concluded by the Challenger from the fact that Newton discovered 'Gravity' i.e., attraction of matter by the matter thus Newton by observing the light-rays as particles i.e., a state of the matter would had understood that light-rays being materialistic would be attracted by the matter of the medium through which the light-rays propagate. From this he would have concluded that light-rays would travel faster in denser medium (because denser the matter thus greater the mass, so greater the gravity-pull). After discovery of the gravity by the Newton, not only the Newton but every Physicists of that era would have thought like what Newton had understood. This wrong/false understanding that medium attracts the light-rays thus light would travel faster in denser medium had given the support to wave theory put forward by the Huygens.

History: Despite the highly regarded reputation of Sir Isaac Newton, a number of prominent scientists in the early 1700s did not agree with his particle (corpuscular) theory. Some argued that if light consisted of particles, then when two beams are crossed, some of the particles would collide with each other to produce a deviation in the light beams. Obviously, this is not the case, so they concluded that light must not be composed of individual particles.

Challenger: Past-era Physicists were lacking in their knowledge over the particles of the light-rays thus they could not understand that light-rays particles have the property to shed overlappings and to accept overlappings to make themselves rarer and denser thus crossed beams do not deviate from their paths.

History: Much more took place in between the said period to prove that light is a wave.

Challenger: Going through this chapter would make the reader aware that what and how happened during the past.

History: During the 20th century Scientists came to the conclusion that both theories are correct and concluded that light has dual personality of the wave and particle too.

Challenger: Modern-era Physicists to conceal their inability to understand correctly the light/rays and to put an end to controversy have started advocating that light/rays has dual personality/ characteristics but whereas light/rays has only one property that it is consisting of microest spheres particles, all particles touching closely with each other to form a row or a ray.

Conclusion:

Past-era Physicists (now Modern era Physicists and also the blind concerned followers), those who advocated particles theory understood that light-rays on refraction bend towards denser medium on their entry to denser medium and at their escape from denser medium bend towards denser medium due to attraction of light rays' particles by the matter of denser medium. Thus from this they hypothesized that light rays if are consisting of particles would move faster in denser medium by the attraction of medium atoms. Their (Physicists) this understanding was/is absolutely wrong as stated and explained ahead.

World is still following the basics over the light/rays by accepting light/rays as a wave, however by accepting light/rays with dual properties of the wave and particles, they (Physicists) has attempted to stop controversy over the property of light/rays. They have not yet given a deep thought over the property of light based over its particle nature.

The fact that is light a wave or a particle (stream of particles); can be well understood ahead under the following illustration that in which form a ray consisting of particles propagates.

The fact that is light a wave or a particle (stream of particles); can be well understood ahead under the following illustration that in which form a ray consisting of particles propagates.

●(E)-(ii) Unique physical property of light/rays understood from some facts and experiments:
● If light/rays are composed of materialistic-particles; then in which physical form a ray of light-particles or particles of any other kind of ray propagate?

Before any explanation that how a ray of light consisting of microest-particles physically propagates; some facts need understanding.

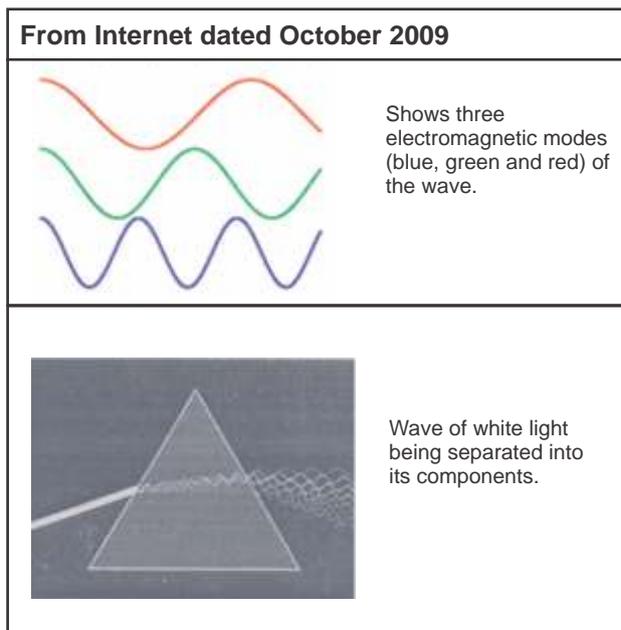
Fact-1: Why the past-era Physicists considered a ray of light in the form of a wave?

Past-era Physicists did not know any other kinds of the rays except light or light-rays. Further, when the present modern-Physicists till to date are unable to understand light-rays as a matter, question to understand light-rays as a matter by the past-era Physicists could not arise, thus past-era Physicists had no option or direction except to understand light-rays in the form of a wave. Because of this fact their brain become prejudiced that the rays propagate in the form of wave thus in every experiment they remain tilted towards the result to prove that light-rays travel in wave motion. Unfortunately some formulas derived over the propagation of light-rays and over the laws of reflection, refraction and diffraction etc falsely had/has given the results which tallied/tallies with the actual phenomenon due to typical-false human-brain understanding as stated under this sub-chapter.

Fact-2: Which false understanding had/has given the results that tallied/tallies with the actual phenomenon of light/rays?

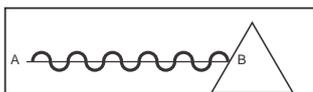
Physicists and the concerned had/have understood (falsely) the following three (a, b and c) properties of light/rays, which lead the Science-community towards the wrong direction.

(a) Every concerned adopts only one phase of light/rays for understanding every property/law of light/ray in the form of a wave. Thus every concerned draws a ray travelling in wave motion over the paper or over the screen of computer for calculation purpose always only in one phase whereas it travels, strikes or passes through a transparent body in number of other phases too.

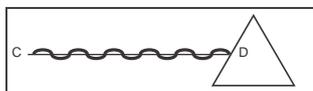


When a concerned has to study or to calculate the path of a ray in wave motion while it has to pass through a prism or glass slab etc, the concerned always adopts one phase over the paper or over the computer screen as stated below, the ray AB.

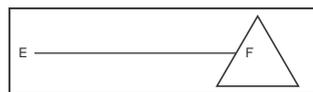
- This phase of the wave-ray AB always lies in the plane of the paper or screen of the computer.



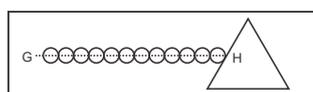
- The same ray (CD) in wave motion at 45° to the plane of paper/computer-screen: This understanding of the rays would results to lower its amplitude thus the calculated results.



- If we have to draw this wavy ray (ray travelling in wave motion) perpendicular to the paper, it would be seen a straight line EF.

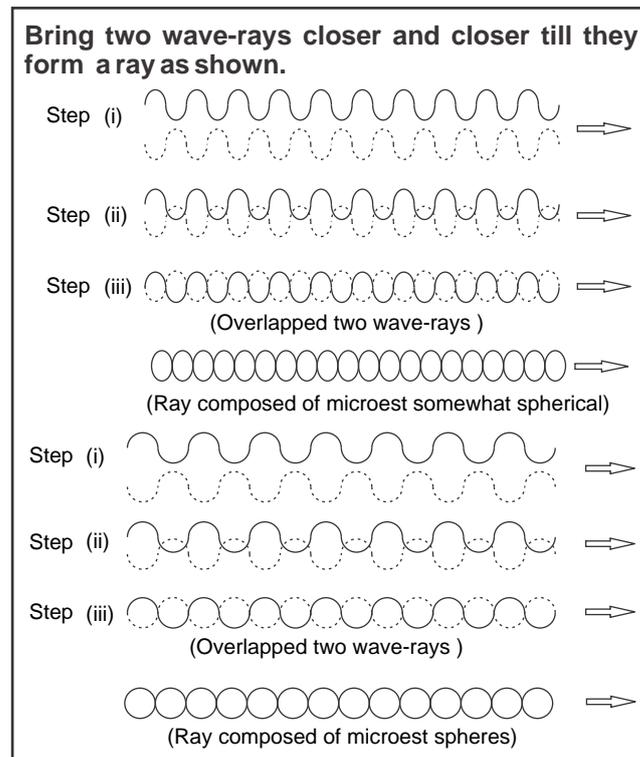


- Now if we spin the wave AB to its axis AB. This could form an unlimited numbers of versions at every degree of rotation. Now if we spin fast this wave to its axis AB, it would form a chain of spheres. This chain of spheres would follow all the laws of light, which we falsely attempted to understand that a ray of light travels in wave motion.



- In real terms by sketching a ray as shown above (in wave form) every concerned calculates the result of a ray path by camouflaging a wave-ray to spherical-particle-ray but by understanding the ray as a wave
- Challenger is surprised to note that why no one had ever given a thought that how a wave motion ray could be explained by forming a ray in other phases also, like CD or EF?

Overlapping of two wave-rays:Overlapping of two waves of the same specifications would result to form a ray; Scientific calculation of this formed ray for the purpose of getting results of reflection, refraction, diffraction etc., would tally with the results obtained by understanding a ray composed of microest spheres by closely touching each other. Due to this fact Physicists of the past-era while laying foundation stone of the laws over light/rays committed blunder error. This can be well understood from the sketch as shown below.



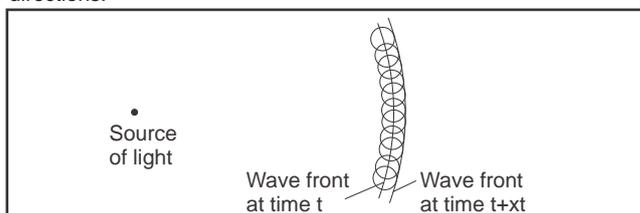
CONCLUSION:

Laws of reflection, refraction etc has been illustrated under the relevant paragraph by considering a ray forming of microest spheres, closely touching each other. In fact a wave motion theory can not yield the same results as results are being obtained by understanding a ray of stream of particles. No two different versions of the laws can yield the same results in science but these two stated understandings give result so, strange but true. **Why so? This all is due to the said error (blunder error).**

(b) Another understanding (false) about the principle of propagation of light-ray understood by the Physicists in the form of a wave, which tallied the results with the ray consisting of spherical-particles is stated below:

Huygens' principal (Theory) for propagation of waves:

According to his principle in a homogeneous medium every point on a wave front is considered to be the centre of disturbance and sends out secondary spherical waves in all the directions.



Huygens hypothesized wave theory during the seventeenth century but whereas till fusion of atom during the twentieth century, no one could understand that light (rays) is a form of the matter, thus Huygens had no option (mind thought) except to understand light/rays in the form of waves, which propagates as per his principle as stated above.

His principle of propagation of a wave tally with the propagation as understood by the Challenger for a ray of light consisting of materialistic microest spheres, all spheres closely touching each other to form a row (i.e., rays). This had/has resulted to achieve the calculations over the laws of reflection, refraction and diffraction etc as correct but by keeping understanding over the physical properties of the light/ray as false. This false understanding over the physical property of light/rays did not pose much problem to Physicists but it had/has kept the Astronomers at bay from correctly understanding the function of solar/planetary (celestial bodies) system.

(c) Below stated understanding about the property of light is similar to have the answer by posing query that hen existed first or the egg? OR should the ray of particle is understood first or how the ray in the form of particles propagates?

Answer of every one would be that the particle of the ray should be understood first. There are some secrets of the Nature which do not follow the traditional way to have its answer; among such secrets, it is the fact that to understand particle of the ray we have to understand that how light-ray in the form of particles propagates? Before explanation that how actually a ray in the form of particles propagates, it would be better to know that what the World understands about the ray in the form of stream of particles.

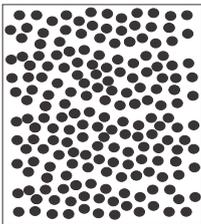
Is light a stream of particles?

Yes, but not the way World had/have understood. It is a unique new discovery. Challenger has declared his discovery over unique property of light/rays and true working mechanism of solar/planetary system through a book 'MATERIALISTIC UNIVERSE' on 7th April 2007. While releasing the said book, Challenger had thought that the Astronomers would understand quickly to canvas the Physicists about unique property of light but the past experience has resulted to conclude that the Astronomers are the followers of the Physicists. **From this snag Challenger concluded that chapter of light/rays has to be given the prime importance to weed out all the proofs (false) which proves that light is a wave and also to prove from every aspect that light consist of microest-particles.**

● Light as particles:

World:

Physicists and those who advocated/advocates that light is a stream of particles, they considered/consider light particles like spray droplets from water hose end.



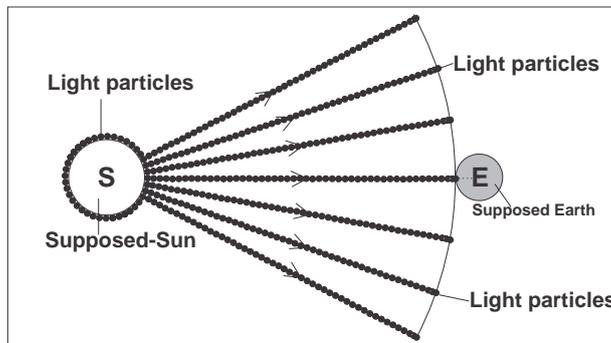
Light/rays in the form of particles as understood by the World. (Sketch taken from Internet.)

Note:

- See proper sketch over the Internet that how World understands.
- Above said understanding by the World about the light/rays in the form of particles has the proof that the Physicists (all concerned) have not yet given the primary thought over the fact that how light/rays could propagate if it is consisting of particles.

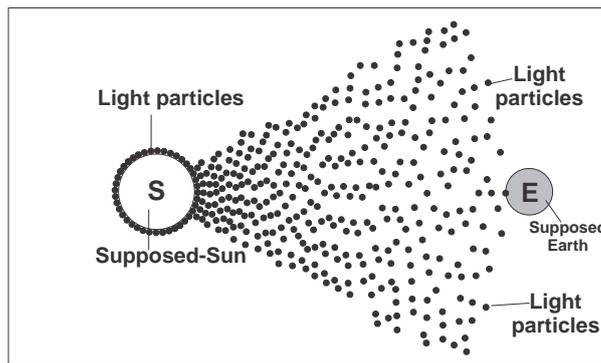
Challenger:

Consider imaginary Sun having visible particles of light all over its surface closely touching each other and forming a shell. As the particles of the shell would move ahead, the next shell of particles would emerge from the Sun and so on. The particles which were once over the surface of the Sun, those particles on reaching the Earth they would be spaced. The space between each particle would be beyond imagination. But in reality, the light (light-particles) on reaching Earth or over the path or moving to far off in the solar system leaves no space without light-particles.



Above supposed sketch is based over the origin of particles at the same point over the shell of Sun's surface.

But if origin of particles varies over the supposed Sun's shell then there would be no complete ray of particles, all the particles would be widely spaced at random positions like spray droplets from water hose end as shown below. Light-rays do not travel like this.



Conclusion:

The fact understood from the above sketches proves that till to date Physicists have never moved in their thoughts in the true direction. Particles of the light in reality are not of the shape and formation which the World had/has understood thus all the experiments performed by the Physicists to disapprove that light does not consists of particles are wrong. Explanation to this effect is ahead under the relevant paragraphs.

How a ray of light actually propagates?

As the equation $E=mc^2$, has been proved as fact which has no base of its origin; similarly the understanding that the light-ray is consisting of materialistic microest-spheres by all closely touching each other to form a row is also the fact. By considering a ray of light so, Challenger has been able to understand true working mechanism solar/planetary system, which is a proof of the light/ray understood and its propagation as stated.

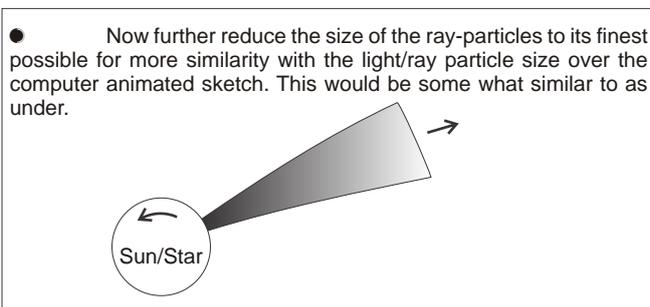
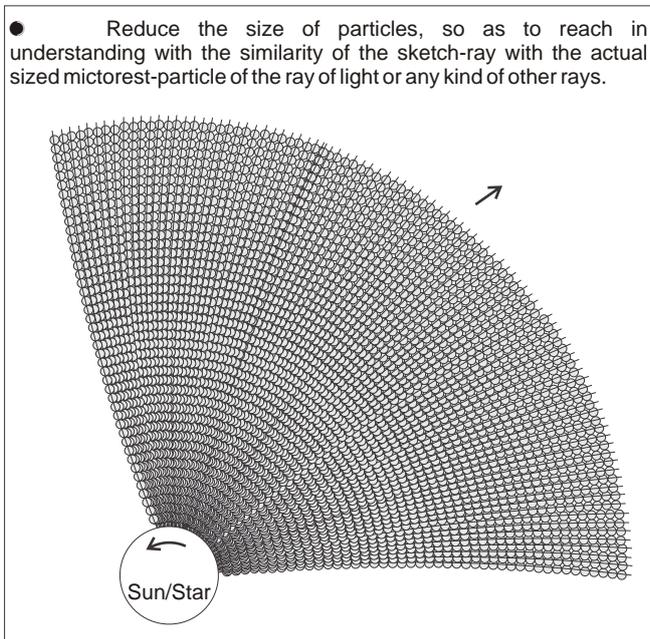
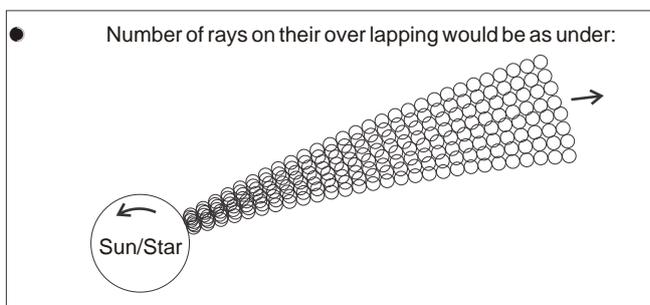
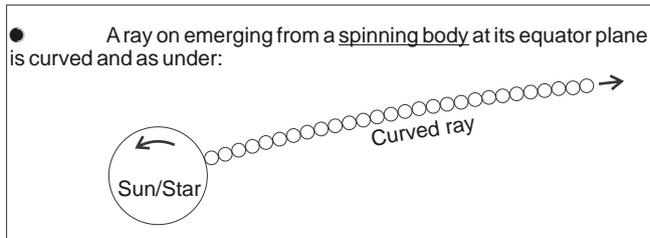
By considering a ray composed of materialistic microest-spheres by all closely touches each other and understanding of another light/rays' property that spheres are overlapped on their concentration and shed overlappings to accommodate the expanded available space on propagation of the ray, Challenger has been able to prove under a number of experiments that light/rays are composed of materialistic microest-spheres and there is nothing like a wave in the ray.



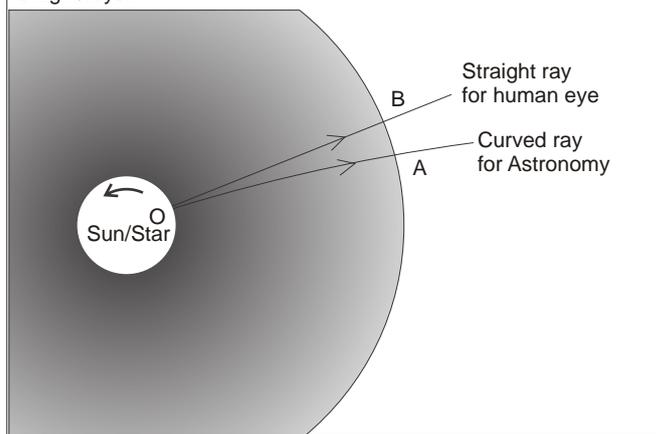
Fact-3: Because of the fact that light/rays' particles on their propagation shed over lapping to fill the expanded space (leaving nothing empty) and also particles being of microest nature; a ray of light (or any ray of any kind) is different for the Astronomy purpose (working mechanism of Sun/planets/satellites etc) and quite different for the human-eye or any living body to see the source:

Every particle of the light/ray is an independent particle. Row of particles which has been formed from the origin of first particle or from the same point over a source of light is understood a ray (true ray). A ray for the purpose of Astronomy is different (which is a true ray) but whereas for the purpose of human eye or any living body to see the source, a ray is a different (false understood ray).

Explanation:



● In this sketch (particles all over the space) we can draw two lines; both the lines would be formed by microest-spheres (particles) of light/rays.



Curved ray O A formed by the particles would be for the Astronomy (working mechanism) and whereas the ray O B would be for the human-eye or for any body to see the source of light (Sun/stars etc).

Conclusion:

Because of the said fact we are unable to see (notice) the curved rays of the Sun or rays coming out from any spinning body but materialistic curved rays perform their duty for the working mechanism of solar/planetary system (Universe system).

★

Some laws/experiments over the light/rays to understand that is it a wave or particles?

Some Experiments performed over the light/rays by the Physicists had/have given them the results that light/rays is a wave and some experiments had/have given the result that light/rays is composed of particles. This has resulted to understand by the Physicists that light/rays have dual property of the wave and particle too. **In fact not even a single experiment performed by the Physicists would had/have given the result that light/ray is a wave, if the Physicists had/have understood the true form in which a light/ray could propagate if it is consisting of particles.**

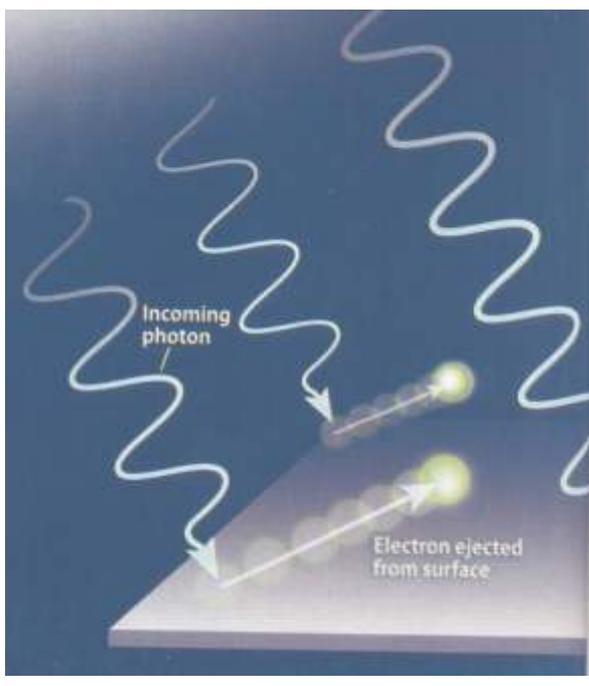
NOTE:

Before explanation over the experiments, some worth noting points are as under:

Explanations given by the Physicists in text books/Internet etc over the experiments performed to understand that light/rays is a wave or particle make a sense that the Physicists have physically noticed the rays of light in the form of wave. Explanations apparently suggest that experiments were/are performed like creating two different forms of propagation of a ray i.e., in the form of a wave and another in the form of particles. in fact Physicists had/have not created (nor they can create) two different types of light/rays in the form of a wave and another in the form of particles for their experiments. Physicists have observed the results by considering a ray in the form of a wave and also in the form of particles. Point is worth noting that when the Physicists do not know correctly that how a ray, if it is in the form of particles could propagate, how they (Physicists) can observe correctly the result by considering a ray composed of particles? This has the proof that the results observed by the Physicists that rays are not composed of particles by considering a ray composed of particles in their experiments are not correct.

● Physicists are not firm over the wave pattern; they are using different patterns to understand different functions/experiments thus are misleading the concerned.

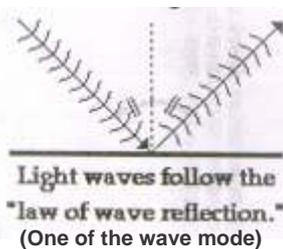
From ASTRONOMY magazine July2009.



While understanding photon i.e., Light in the form of particles World has understood the ray in the form of moving wave as shown above but the ray on its strike over the metal surface to eject electron it has been shown as striking arrow in the direction of the propagation of the ray; sketch and the illustration do not tally absolutely.

From Internet September 2009.

Waves: A number of different modes of the light waves which have been understood by the Experts (Different modes have been adopted for different understandings.)



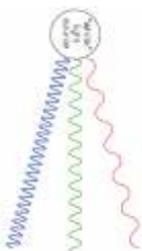
(One of the wave mode)



(One of the wave mode)



(One of the wave mode)



(One of the wave mode)



(One of the wave mode)

Reflection:

Physicists could not understand that how a ray composed of particles could face reflection. Their this inability is due to the fact that they have not given even a primary thought that how a ray if it is composed of particles would propagate. However they (Physicists) have given the explanation (false) that how a ray in the form of a wave faces reflection.

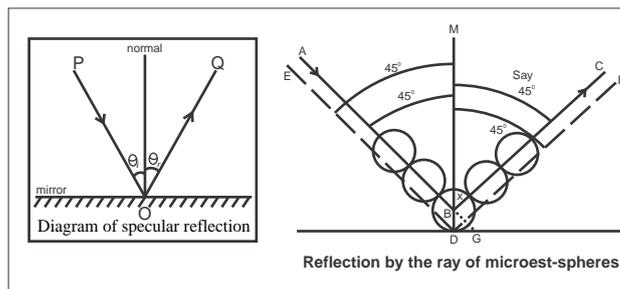
From Internet September 2009.



Challenger:

If a ray is simply a wave of energy and it is nothing like materialistic, it could not reflect, it must get absorbed on its strike over any body. Further every different pattern of the ray understood by the Physicists in the form of a wave could not face reflection by observing the laws of reflection.

A ray composed of microest spheres, all spheres by closely touching each other could reflect by observing the laws of reflection as exhibited below.



Note: In the above sketch particles (spheres) of the light/rays have been shown of big size to understand but in fact a ray of light is composed of microest-spheres, so thin/fine are the particles that we have no mean to draw such a fine line (row of spheres). Understand reflection of the light/ray consisting of microest-spheres of its actual size as stated but not as shown.

Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

Refraction:

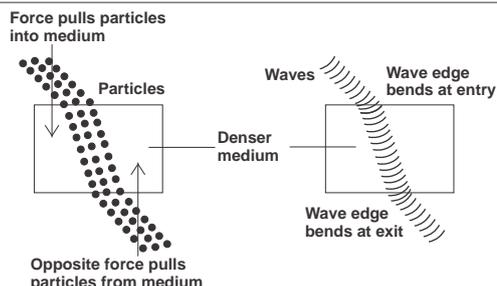
Physicists also could not understand refraction by the particle-ray that how a ray composed of particles would face refraction. Their said inability is also due to the fact that they have not given even a primary thought that how a ray, if it is composed of particles would propagate. However they (Physicists) have given the explanation (false) that how ray in the form of a wave faces refraction:

World:

What the World (Physicists) understands?

From Internet, September 2009.

Refraction of the ray in the form of particles and waves:

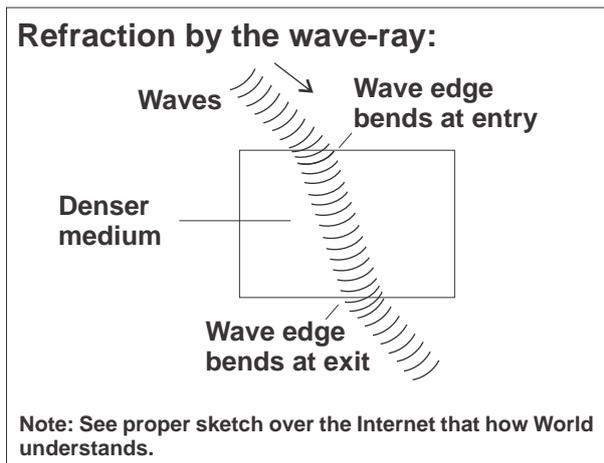


According to **Huygens' wave theory**, a small portion of each angled wave-front should impact the second medium before the rest of the front reaches the interface. This portion will start to move through the second medium while the rest of the wave is still traveling in the first medium, but will move more slowly due to the higher refractive index of the second medium. Because the wave front is now traveling at two different speeds, it will bend into the second medium, thus changing the angle of propagation. **In contrast, particle theory has a rather difficult time explaining why particles of light should change direction when they pass from one medium into another. Proponents of the theory suggest that a special force, directed perpendicular to the interface, acts to change the speed of the particles as they enter the second medium. The exact nature of this force was left to speculation, and no evidence has ever been collected to prove the particles-ray theory.**

Challenger:

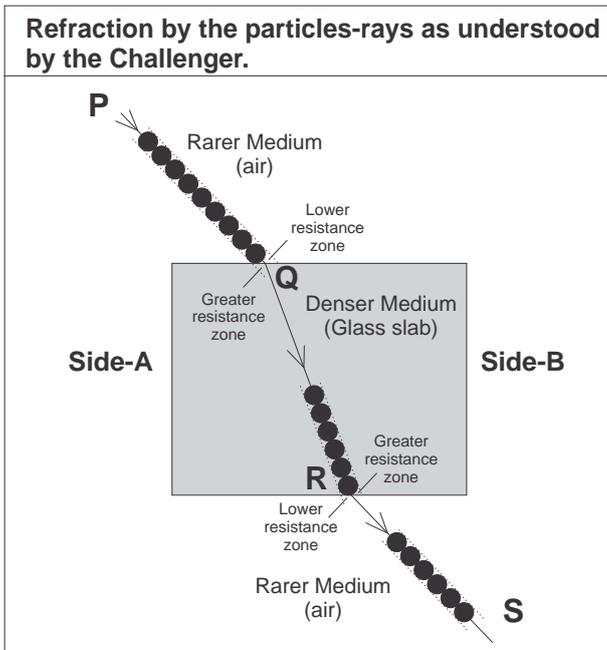
- Physicists who had/have attempted to understand the light/rays as a wave and also in the form of particles; they had/have not understood particles in the sense that the particles are closely touching each other but understood particles with spaces like spray droplets from water hose end or like particles of solar-wind. Because of this prime error in their thoughts/ understanding, Physicists could not arrive at true property of light/rays but tilted towards the false understanding i.e., towards the wave theory.

Further, if a ray is simply a wave of energy and it is nothing like materialistic, it could not reflect or could not bend on its entry to denser medium, except the wave ray getting absorbed into the medium and get radiated (escaped) from all directions. Further, every different type of the pattern of ray understood in the form of a wave could not have the bend on its entry to denser medium as understood (falsely) by the Physicists as shown below over the sketch.



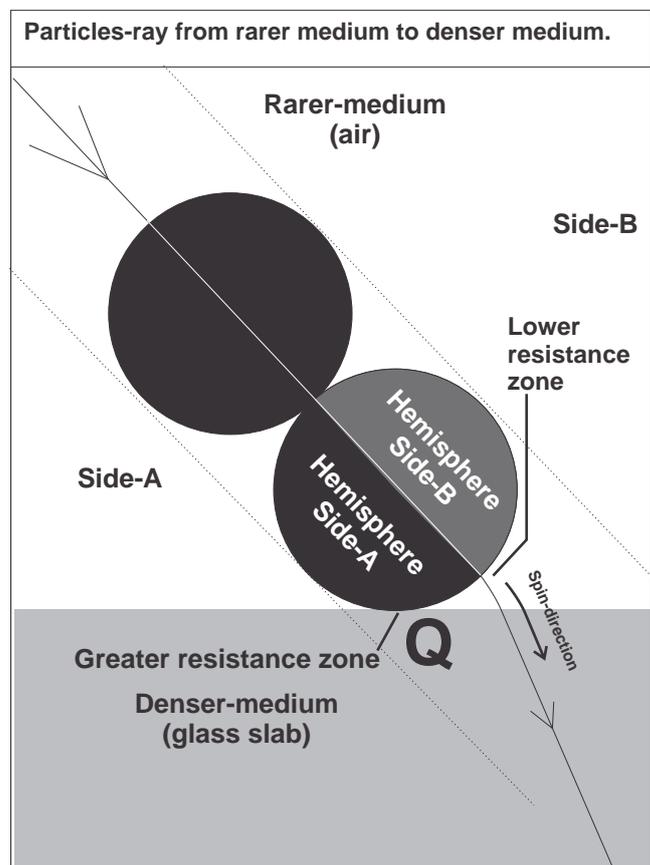
- World has not given a deep thought to understand particles-ray because of its mind-set trend towards the accepted (prejudice) wave theory, thus the Experts have left the fact (cause/force/factor which bends the particles-ray) to speculation. Further, World's speculation over bending of the particles' ray is wrong, it is not the pull of the particles of the rays by the matter of higher refractive index (denser medium) which on pulling the ray bends the particles-ray on its entry and at exit but this all is due to the difference in resistance over the hemispheres of particles (spheres) at their entry and exit interface as stated below.

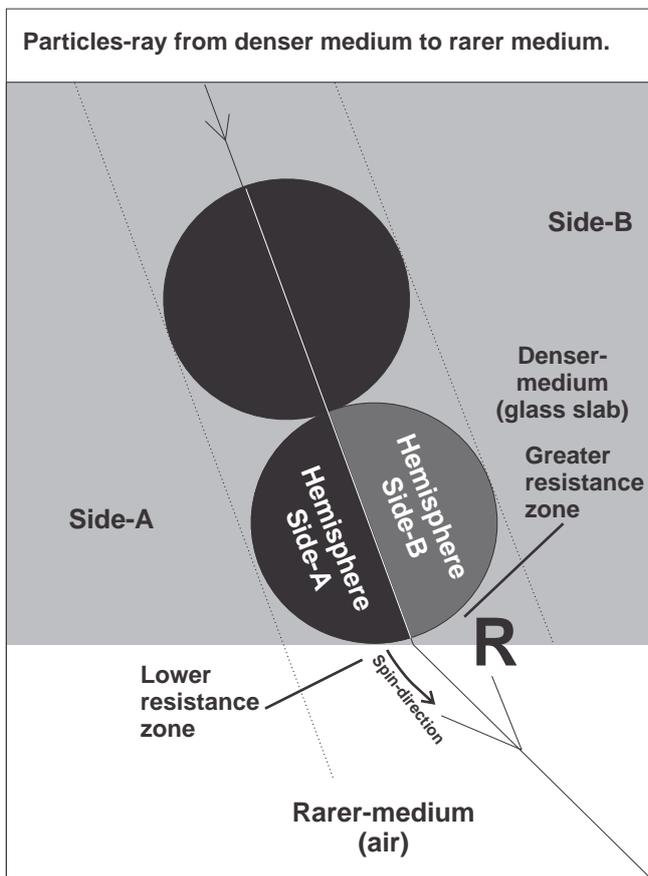
Refraction by the particles-ray (light/ray in the form of microest spheres, all spheres closely touching each other):



When a particle rays PQ from rarer medium touches the denser medium at point Q; the microest sphere at interface which touches the denser medium faces difference in resistance over its hemispheres towards side (Side-A) than the other opposite side to it (Side-B). This difference in the resistance to particle on its entry to denser medium (greater resistance to hemisphere of the particle towards Side-A) results to spin the particle a little resulting to bend the materialistic microest sphere (particle), thus the ray bends in direction QR towards Side-A.

Microest-sphere (materialistic-particle) in the rays QR when touches at R; it again faces the difference in resistance to its either side hemispheres but in the opposite magnitude than the resistance faced at Q. Thus the ray particle at R again spins a little resulting to bend the ray QR but in the opposite direction. Magnified sketch at point Q and R of the ray is shown as below for better understanding.



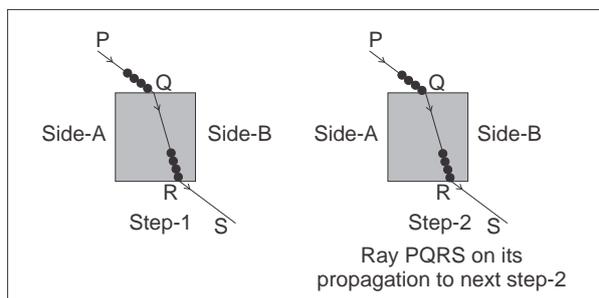


Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

Refraction by monochromatic light-ray and by the rays of different colours:

● Monochromatic light-ray:

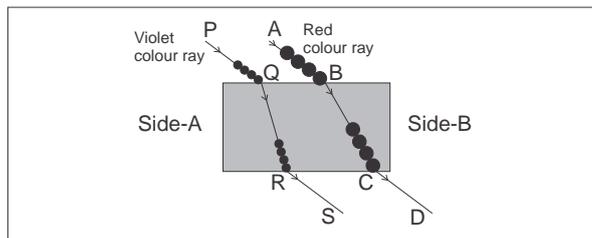


Monochromatic ray-particle which touches on propagation the denser medium at Q, faces greater resistance on its hemisphere towards side-A as compared to the hemisphere towards side-B, thus particle spins a little resulting the ray to bend or deviate towards side-A on its entry to denser medium. Monochromatic ray-particle on its re-entry to rarer-medium faces greater resistance over its hemispheres towards the side-B as compared the hemisphere towards side-A, thus particle further spins a little in the reverse direction resulting the ray to bend or deviate towards side-B to follow a parallel path with the emergent-ray.

● Different coloured-rays of light:

Rays of different colours of light have different wave-lengths or different sizes of their particles besides difference in their

densities. By ignoring different densities, all the rays of light which have different colours would deviate differently because of their different sizes (surface area) and different total mass. Small particles (violet-rays) would deviate to greater angle due to greater resistance difference between the hemispheres of the particles towards the side-A and side-B than the resistance difference over hemispheres to large sized particles of the red-ray because of the factor surface area and mass ratio)



Diffraction:

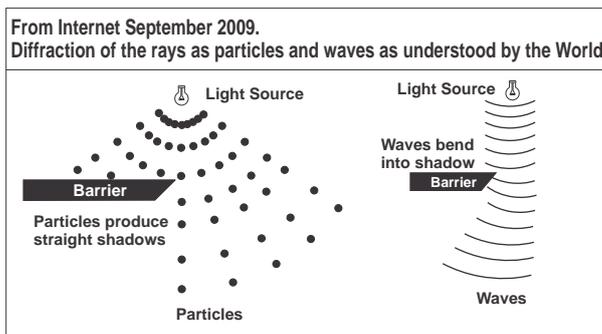
Physicists tilted towards the wave theory by understanding (falsely) diffraction property of light/rays in the form of a wave because of their (Physicists) inability to understand that how a ray of light would propagate if it is consisting of particles (Microest spherical particles). They performed two types of the experiments in brain over the diffraction property of light/rays:

- (i) Diffraction of the rays at the edge barrier (or through a narrow slit).
- (ii) Diffraction of the rays from two close narrow slits to form fringes.

(i) Diffraction of the rays at the edge barrier (or through a narrow slit):

World:

A ray consisting of particles and waves should behave differently when the rays encounter the edge of an object and wave rays form a shadow.



When light is passed over an edge barrier or through a narrow slit, the beam spreads and becomes wider than expected. This fundamentally important observation lends a significant amount of credibility to the wave theory of light. Like waves in water, light waves encountering the edge of an object appear to bend around the edge and into its geometric shadow, which is a region that is not directly illuminated by the light beam. This behavior is analogous to water waves that wrap around the end of a raft, instead of reflecting away.

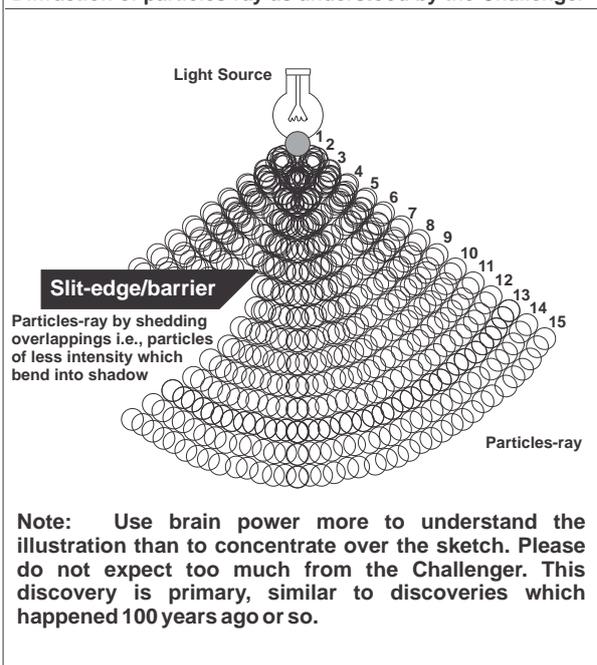
Challenger:

● Physicists have linked light-waves with the property of water-waves. Water is a matter, so waves of the matter in no way can be linked with the light-wave which are not a state of the matter. World have not understood a wave of the light as a state of the matter thus linking of light-waves to water-waves is to mislead the concerned about the property of light/rays.

● Experts in above said experiment too had/have done the same mistake while understanding light in the form of particles. They considered particles of the rays with spaces like solar-wind particles but whereas a ray consists of particles, which all are closely touching each other. Further Physicists lack knowledge about most of other facts related to light/rays; particularly the fact that how a ray of light would propagate if it is consisting of microest-particles. Some other facts are as under:

Light/ray consists of microest spheres, all closely touching each other in a row, Particles are of materialistic nature. Particles have the property to overlap and to shed overlapping to accommodate the expanded space. Speed of the light i.e., of the particles is great. The light i.e., White matter has some properties, similar to the gases as explained under the relevant chapter/paragraph in MATERIALISTIC UNIVERSE. **In brief:** If the gas or water particles (molecules) were not closely touching each other; gas or water on flowing at speed in a pipe line would not have created vacuum in the capillary existing over the pipe line in which they are flowing. Further, air/water on flowing in a channel would not have wrapped at the edges of the channel.

Diffraction of particles-ray as understood by the Challenger



Light/ray consists of microest spheres and on moving at high speed just over the edge creates perfect-vacuum (white matter vacuum but not air vacuum) like water or air would create vacuum while flowing at high speed. Because of the vacuum of white-matter created by the ray-particles at step No.7, the next ray-particle at step No. 8 of the light/ray consisting of microest spheres would shed overlapping to fill the white-matter vacuum space over the edge and so on thus light forms diffraction over the edge and bends into the shadow. Further, because speed of the particles is very great, so light/ray would bend a little (not too much as shown over the sketch because of large sized particles) into the shadow to follow flared path.

In addition to the said fact, another second reason as stated here is also in favour of the diffraction of rays on passing through narrow slit or over the edge of an obstacle. The rays'-particle which has just touched the slit or edge, faces resistance towards the side which touches the slit/edge thus ray on leaving the slit/edge would bend towards the resistance side. The particles of the next rays(s) too would experience some resistance because the particles of the ray(s) which are touching the slit/edge are materialistic-particles like gas or water and are closely touching each other and most of which are overlapped partially with the adjacent rays' particles. Both the said factors result for the diffraction of rays.

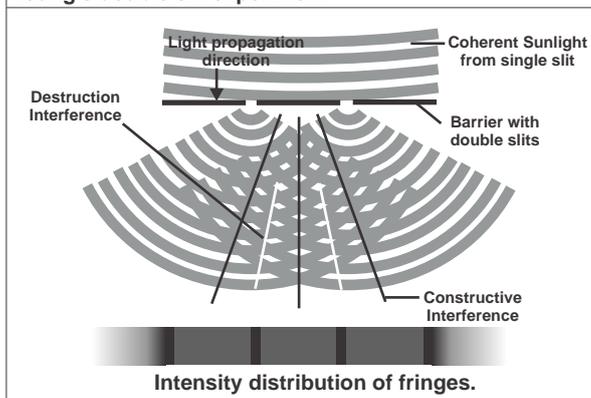
Diffraction of particles-rays from two close narrow slits to form fringes:

World:

Almost a hundred years after Newton and Huygens, who proposed their theories, an English physicist named Thomas Young performed an experiment that strongly supported the wave-like nature of light. Because he believed that light was composed of waves, Young reasoned that some type of interaction would occur when two light waves met. In order to test this hypothesis, he used a screen containing a single, narrow slit to produce a coherent light beam (containing waves that propagate in phase) from ordinary sunlight. When the sun's rays encounter the slit, they spread out or **diffract** to produce a single wave front. If this front is allowed to illuminate a second screen having two closely spaced slits, two additional sources of coherent light, perfectly in step with each other are produced. Light from each slit traveling to a single point halfway between the two slits should arrive perfectly in step. The resulting waves should reinforce each other to produce a much larger wave. However, if a point on either side of the central point is considered, then light from one slit must travel much farther to reach a second point on the opposite side of the central point. Light from the slit closer to this second point would arrive before light from the distant slit, so the two waves would be out of step with each other, and might cancel each other to produce darkness.

As he suspected, Young discovered that when the light waves from the second set of slits are spread (or diffracted), they meet each other and overlap. In some cases, the overlap combines the two waves exactly in step. However, in other cases, the light waves are combined either slightly or completely out of step with each other. Young found that when the waves met in step, they added together by a process that has come to be termed **constructive interference**. Waves that meet out of step will cancel each other out, a phenomenon known as **destructive interference**. In between these two extremes, various degrees of constructive and destructive interference occur to produce waves having a wide spectrum of amplitudes. Young was able to observe the effects of interference on a screen placed at a set distance behind the two slits. After being diffracted, the light that is recombined by interference produces a series of bright and dark **fringes** along the length of the screen.

From Internet, September 2009 Young's double slit experiment



Young postulated that light of different colors was composed of waves having different wave lengths, a fundamental concept that is widely accepted today. In contrast, the particle theory advocates envisioned that various colors were derived from particles having either different masses or traveling at different speeds.

The interference effect is not restricted to light. Waves produced on the surface of a pool or pond will spread in all directions and undergo an identical behavior. Where two waves meet in step; they will add together to make a larger wave by constructive interference. Colliding waves that are out of step will cancel each other via destructive interference and produce a level surface on the water.

Challenger:

Thomas young, past-era Physicists and now the modern-physicists too had/have committed the same error as explained under the 'Diffraction of particles-ray from the edge barrier.

Challenger:
Diffraction of particles-ray from two close narrow slits to form fringes:

Note: Use brain power more to understand the illustration than to concentrate over the sketch. Please do not expect too much from the Challenger. This discovery is primary, similar to discoveries which happened by the individuals 100 years ago or so.

Particles of the rays on passing through narrow slits would start shedding overlappings. Thus at every subsequent step the ray would be less illuminated and would form arcs B to J. Arcs from B to J of spheres formed by the two closely slits would form variable intensity patches (fringes). Screen directly below the slits would be illuminated with light fringes whereas the centre of two slits and sides would have less illuminated fringes. The best experiment to understand light/rays in the form of particles would be the computer modeling by specially designed mechanism with property of light-rays that light rays consist of particles which shed overlappings to fill the expanded space. By understanding true property of light that how a ray of light would propagate if it is consisting of microest-spheres would disapprove Huygen's theory that light-ray propagates in the form of a wave.

Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

Behavior of light beam between crossed polarizes to prove that are light/rays propagating in the form of waves or stream of particles?

World:

Light/rays through crossed polarizers: (Light/rays a particle or a wave?)

Even more evidence for a wave-like nature of light was uncovered when the behavior of a light beam between crossed polarizers was carefully examined. Polarizing filters have a unique molecular structure that allows only light having a single orientation to pass through. In other words, a polarizer can be considered a specialized type of molecular **Venetian blind** having tiny rows of slats that are oriented in a single direction within the polarizing material. If a beam of light is allowed to impact a polarizer, only light rays oriented parallel to the polarizing direction are able to pass through the polarizer. If a second polarizer is positioned behind the first and oriented in the same direction, then light passing through the first polarizer will also pass through the second.

However, if the second polarizer is rotated at a small angle, the amount of light passing through will be decreased. When the second polarizer is rotated so the orientation is perpendicular to that of the first polarizer, then none of the light passing through the first polarizer will pass through the second. This effect is easily explained with the wave theory, but no manipulation of the particle theory can

explain how light is blocked by the second polarizer.

From Internet September 2009.

Particles and waves through crossed polarizers

Note: See proper sketch over the Internet that how World understands.

Challenger:

Like other experiments over the light/ray to understand that light is a particle or wave, the World has not developed two different kinds of light rays i.e., ray of particles and of the ray of the form of a wave but has understood (observed) so by presuming light/ray that if it is a wave then how the wave-ray would behave on passing through the crossed polarizers and if the light/ray is of particles then how the particles' light/ray would behave.

World is wrong over the basic understanding of light/rays that what type of the particles of the light-rays are and how the ray of particles propagates then how the World can perform experiment in brain to understand that light is not composed of particles?

Light does not pass through cross polarizers thus the World considered that light is a wave but not particles. Experts performed practical in brain (but not in the laboratory by developing light waves of two different types i.e., in the form of wave and particles). They concluded by the practical in brain that if light is a wave then the first polarizer has allowed only those waves which have their plane of oscillation parallel to the polarizer's slats and on passing the wave from the next polarizer which is placed cross to the first, waves could not pass. They further considered (brain visualized) that if the light is composed of the particles then the particles in individual form could have passed through the cross positioned polarizer. From this they concluded that light is a wave. Their this conclusion was/is wrong because of their false understanding about the property of light/rays' particles and propagation of the ray in the form of particles.

Why the light/rays composed of particles do not pass through the crossed polarizers?

Challenger has concluded that light/rays consisting of particles on passing through the first polarizer (slats) get transformed into thin slices; each slice having thickness equivalent to one particle of the light/ray. If such sliced beam of light is allowed to pass through the next polarizer by keeping it cross with the first; light/rays composed of particles in the form of thin slices can not pass through it, only a few rays (particles) can pass through which would be negligible to be considered as almost nil.

In the experiment Physicists noticed that on slight rotation of the next polarizer from its parallel position, some rays pass through it. If the rays are composed of waves, then no ray could pass through the second polarizer on its slight rotation. Passing of some rays is the proof that the beam of rays with some tilt has been sliced and the slice is formed of the rays of microest-particles.

Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

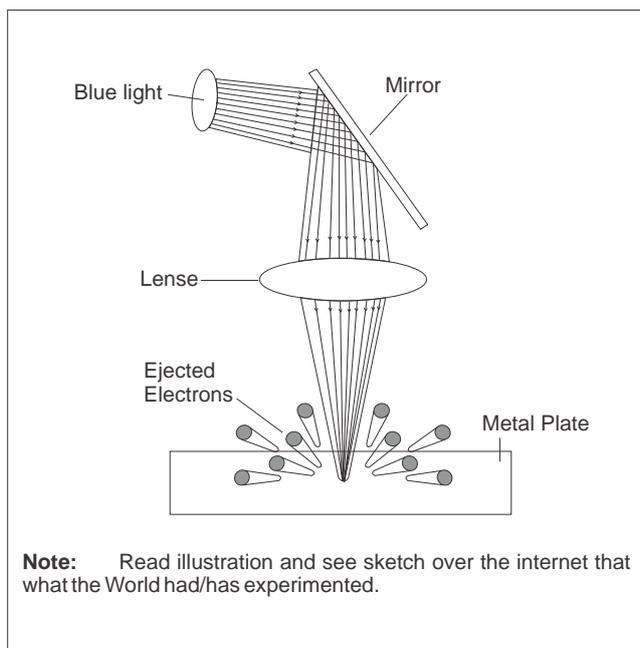


Photoelectric effect confirmed that light is not the wave but stream of particles (ray of particles):

World:

During late 1880s scientists discovered that, under certain conditions light could dislodge electron from the atoms of several metals. Lennard used a prism to split light into its component colours and then selectively focused each colour on to a metal plate to expel electrons. Electrons escaping their atomic bonds had energies that were dependent on the wave lengths of light, not the intensity. This is contrary to what would be expected from the wave theory.

Blue light (short wave length) is the most effective ray for ejecting electrons from the metals.

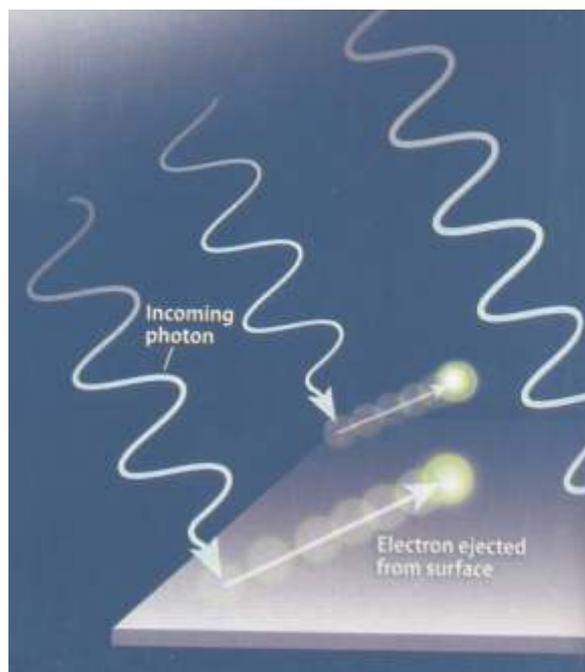


Challenger:

Relationship of the energy magnitude with the wave length of the light has no base but whereas rays consisting of particles have the solid reason to understand the said fact. Blue light i.e., short-wave length means the ray of light consisting of small-sized particles. Small sized particles (Blue-rays) face greater resistance in medium than the rays of large sized particles (i.e., Red rays). Action and reaction are equal and opposite, thus small-particles (Blue light) would cause greater impact over the particles of medium in which ray propagates or over the surface of metal on which it strikes; that is why blue light (small sized particles/spheres) are more effective to eject electrons from the metal plate than the red-light (large sized particles/spheres)

It is surprising to note that instead of understanding property of the light/rays in the form of particles in this experiment too, the ray of light is still being understood in the form of a wave. This all is due to the mind-set trend of the Physicists. A sketch exhibited below is the proof of it.

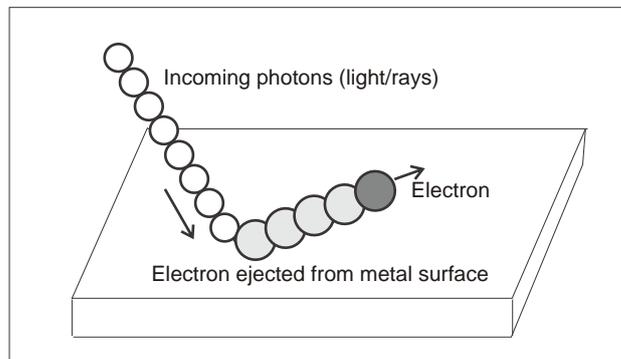
From ASTRONOMY magazine July2009.



While understanding photon i.e., light in the form of particles World has understood the ray in the form of moving wave as shown above but not in its proper form (ray consisting of particles). The wave ray on its strike over the metal surface has been shown to eject electron but the striking arrow has been shown in the direction of the propagation of the ray. Sketch and the illustration/understanding by the World do not tally absolutely.

Challenger:

If instead of understanding the light/ray as understood by the World, the ray having physical property and shape as shown below would be understood then it would tally with the actual phenomenon.



Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.



• Slow speed of the light/ray on passing through denser medium suggests that the light/ray is a row of materialistic particles but not a wave of energy?

World:

Speed of light in denser medium is slow than in the rarer medium, so wave of light (or other waves of different kinds) on its entry to denser medium (glass/water) from rarer medium (air) reduces its speed thus reduces its wave length too but on its entry again to rarer medium (air), the wave-ray regains its original speed

Challenger:

If light is a wave of energy (but not a matter), it cannot regain its original wave-length and speed too on its re-entry to rarer medium (air). A ray of light (or any other kind of ray) can only regain its original speed and dimensions (size of the particle), only if the ray is composed of matter i.e., materialistic. Particles of the light-ray on their liberation from dense surrounding (pressure) and resistance regain their sizes and speed too on their entry to same rarer medium.

Conclusion:

The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

What could be the size of particles (spheres) of the ray if its measured wave length is (x)?

Challenger during initial stages over the explanation under MATERIALISTIC UNIVERSE (Preliminary-1) could not give a deep thought over some properties of the light understood by the World but now he under Preliminary-2 has gone much deeper in understanding. During, Preliminary-1, he was under the impression that the Experts may have seen something like waves in the light but now he has come to know that it was/is only a speculation by them (Physicists) that too was/is false.

Physicists understand that light/rays have dual property of the wave and particles too. This made a primary sense to the challenger as exhibited below:

• **Understanding by the Challenger under his explanation: Preliminary-1.**

(Particles of the light-ray by keeping link of particles-ray with the wave length and also with its amplitude).

(Overlapped two wave-rays)

Step (i) →

Step (ii) →

Step (iii) →

(Ray composed of microest spheres)

By linking wave ray to particle ray
Propagation diameter of the particle ray = $\frac{\text{wave length}}{2}$

Frequency of the particle ray = 2 x (wave frequency)

But the fact is quite different from the above; there is nothing like a wave in the ray of any kind neither the ray has any amplitude. By ignoring the wave theory, the size (diameter) of particle (spheres) of a ray is equivalent to its measured wave length.

• **Understood by the Challenger under his revised explanation: Preliminary-2.**

• **Diameter of the particle (sphere)= Wave length.**

Note: Challenger has not yet linked frequency of the ray understood in the form of a wave with the frequency (eject-rate) of the particles because the World has understood speed of light the same for every different kinds of wave but whereas speed differs with every kinds of the ray.

(F) Unique Physical property of light/rays that it is a state of the matter has been understood from bio-effects of the rays over living beings.

Every one has the practical experience over self that every different kind of the ray (light or any ray) has different biological (chemical reaction) properties. Every plant (vegetation) and every kind of life has its (rays) effects which only materialistic rays can have. A ray only having energy property can not yield such results; Thus the light-ray and all other rays of any kind are materialistic (a state of the matter).

• **All Rays have biological properties:**

Can a ray in the form of a wave have biological properties?

Every different colour-ray of light and all other different kinds of rays like X-rays, radio-rays, alpha/beta/gamma-rays etc have different biological/chemical properties over living beings, whereas a ray in the form of a wave cannot have any biological property. So, light and any other kind of ray is not a wave but all rays of any kind are materialistic thus composed microest-spheres (not wave).

Conclusion:

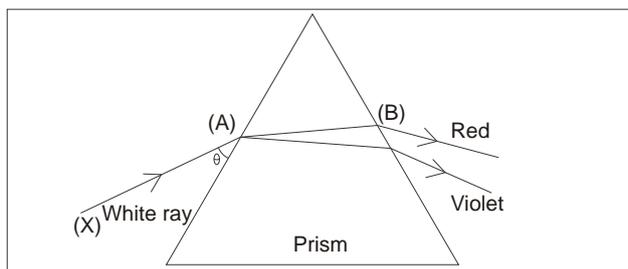
The said fact concludes that light/rays is not a wave but light/rays is composed of materialistic particles.

(G) Some Miscellaneous about light/rays:

Is a ray of white light is one ray which splits to different colours on passing through a prism OR is white-ray a ray composed of by overlapping with the independent different colour rays?

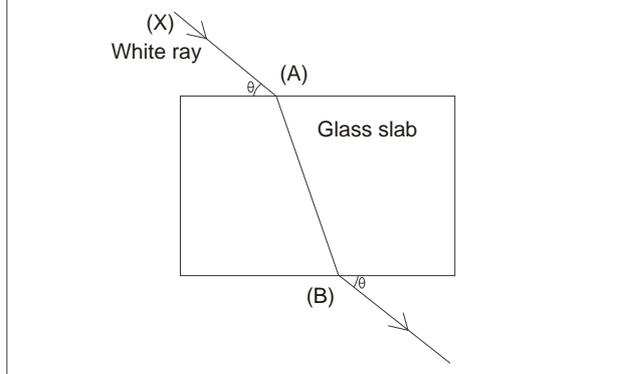
Though this query seems to have no importance but it has its importance to understand unique property of rays that the rays overlap and shed overlapping and allow over taking to particles and also provide passage to different rays in any direction.

Explanation:

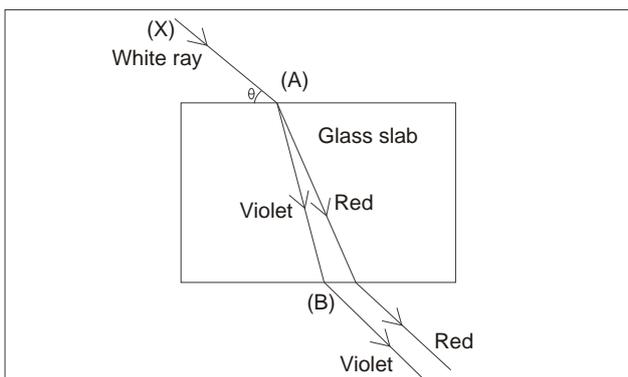


World understands that white light on passing through prism get splits to different colour waves (rays). But in fact bunch of overlapped different colour rays on passing through prism get separated to adopt different paths as per the sizes and densities of the materialistic microest spheres of the colour-ray. This fact can be understood with another explanation as under:

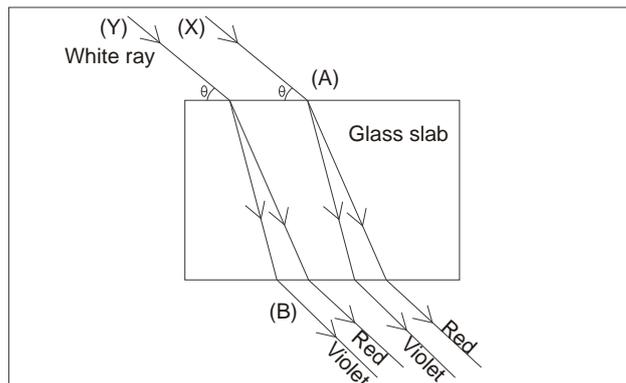
Generally understood refraction of white ray on passing through denser medium (Glass/water etc).



Whenever we study a ray of light on passing through a glass slab, we have never given a thought that the ray on its entry to denser medium gets separated at 'A' like it separates in the prism at A. In fact light-rays of different colours on its entry at surface 'A' into denser medium deviate to different paths and on leaving the surface at B of the slab all colour rays again deviate to forms a path which are parallel to the all rays.



At entry point over the glass slab, it is not one ray that enters to glass slab but whereas unlimited number of rays enter around and near to point A. Rays on leaving the glass slab; colour rays of the ray (X) club with the colour rays of another rays (Y and others) to form again white rays (Mixture of rays).



Conclusion:

White ray on its split does not yield different colour rays but a bunch of different colour rays which has formed white light (ray) by overlapping different sized particles on passing through a prism adopt different paths, which gives us the impression of splitting.

How to understand mass surface area ratio thrust magnitude by the FSOM rays over a celestial spherical body?

Calculation can prove this fact very easily, but for practical, very small spheres of glass are the best to perform experiment.

Challenger:

Practical:

During the year 1978 Challenger attempted to make micro-spheres of glass for his proposed Road-safety product. Although micro-spheres were/are being manufactured in the world from some decades, but his attempt in India was the first without getting any book/professional know-how that how to produce these. He made/manufactured at his own attempt some glass micro- spheres/beads for the proposed reflective product.

When he was dropping micro-spheres of glass of different diameters for some experiment through a vertical column, he observed that small diameter spheres reached to the bottom later than the large one. This all had happened due to the resistance created by the air in the column. Resistance or thrust by the air or FSOM rays (white-matter) by the Sun is the same.

Such small diameter planets or satellites would face greater thrust by the Sun FSOM rays than the thrust over big diameter bodies. For understanding speed of light/rays' particles, the particles of the ray (FSOM/white-matter) of any kind would get the same effect on their propagation in the medium of FSOM/white-matter resulting to slow the speed of the rays consisting of small size particles (like blue light) as compared with the large sized particles (Red light).

Calculations:

Thrust of the air on falling bodies and thrust by the light/rays on celestial bodies:

● **Trust by the Air:**

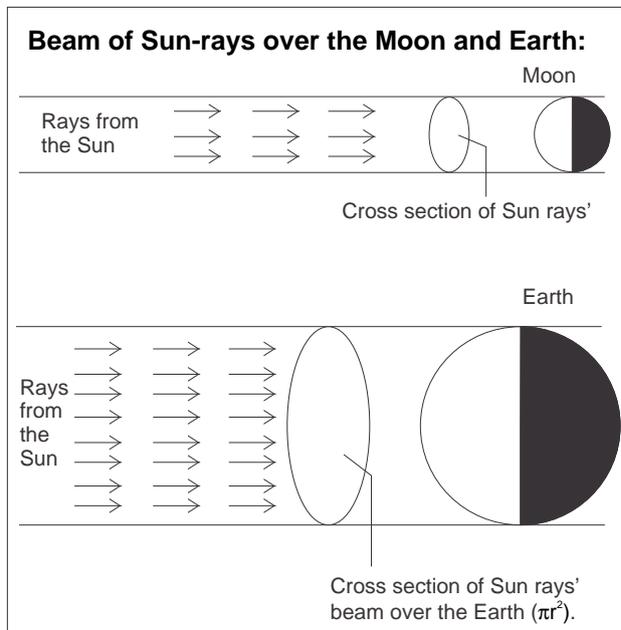
Consider two steel balls of 1 and 10cm diameter; their weight would be $\pi d^3 \div 6 \times 7.84$ gms/cm³ (density) i.e., 4.106 and 4106gms respectively, whereas their half surface area would be $\frac{1}{2} \times \pi d^2$ i.e., 1.57sq cm and 157 sq cm. Thrust (uplift) by the air molecules to oppose falling weight would be for the small ball $4.106 \div 1.57 = 2.615$ gm/cm² but whereas thrust (uplift) to large ball would be $4106 \div 157 = 26.15$ gms/cm². Small ball would face 10 times more the thrust (uplift) than the large ball because its diameter is $1/10^{\text{th}}$ than the large ball. Because of this fact no two balls of the same material with different sizes can reach Earth at the same time, if dropped from a height.

● **Thrust by the light/rays:**

For the purpose of thrust by the light/rays it could be better and proper to calculate cross section of the beam of light/rays than to calculated half surface area of the heavenly bodies and consider thrust of the Sun rays over the Moon and Earth. For easy understanding consider mean density of the Moon and the Earth same and also consider no rays are being radiated/ejected by them (Moon and Earth).

Sun rays' thrust factor:

(Below stated paragraph has been taken from the chapter: MOON. For better and proper understanding, read chapter MOON).



● Moon's diameter is 27% of the diameter of the Earth. In other words, if diameter of the Moon is 27 diameter units then the Earth is of 100 diameter units.

● Moon's mass is 1/81 of the Earth. In other words if Moon has mass of 1 mass unit then Earth has 81 mass units.

● From this data calculated cross sections of the Sun beam rays which are thrusting the Moon and the Earth are as below.

Moon: $22 \div 7 \times (27 \div 2)^2 = 572.78$ say 573 square area units.
 Earth: $22 \div 7 \times (100 \div 2)^2 = 7857$ square area units.

● Consider: 1 square unit of rays' beam area = 1 thrust unit

Thrust factor calculation:

573 thrust units of the Sun rays have to push 1 mass unit of the Moon but whereas 7857 thrust units of the Sun rays have to push 81 mass units of the Earth. **(Or in other words 1 mass unit of the Moon will have Sun rays thrust of 573 thrust units but whereas 1 mass unit of the Earth would have Sun rays thrust off only 97 thrust units, thus Moon would be pushed far off by the thrust of Sun rays than the Earth. (Moon is getting six times greater thrust by the Sun rays than the Earth).**

NOTE: Thrust magnitude over a body by the rays is over the volume/surface area unit but whereas gravity attraction is only over the mass unit; this results pushing of the Moon far away than the Earth.



Why nothing can travel faster than the speed of light?

This has already been proved by the Albert Einstein's theory of relativity that nothing can travel faster than speed of light.

Challenger:

When a body at speed would attempt to cross the speed of light, a perfect FSOM/white-matter vacuum would be created at the back of the body resulting to resist the speed of body from moving at faster rate than the speed of light. If body still attempts to move at faster speed than the speed of light; a perfect-vacuum (Absolute nothing zone) would be created at the back of body resulting to disintegrate atoms of the body into FSOM (white-matter). Thus nothing can travel faster than the speed of light.



Is our world colourful?

We are seeing and accepting that our world is full of colours but the Author has observed that the world is colourless. We see colours due to our brain, which has developed a sense to differentiate between the sizes and qualities of FSOM particles in the form of colours.

Colour of an object or substance is seen when it reflects back light particles in the form of rays to us. Seven colours of the light are composed of the FSOM particles of different sizes (i.e. of different wave lengths. A wavelength or the size of the FSOM particle is the same as stated under the relevant chapter). Brain to differentiate the sizes of particles of the rays (which are falling over the retina), observes in the form of colours as per the sizes of the FSOM particles (wavelength).

Molecules' structure of a coloured glass transforms all types/sizes of the FSOM rays' particles to of a size which would produce the effect of one colour (colour of the glass).

Every species, even every person would be noticing a **different** colour for the same sized FSOM ray particle; all may not be observing the same colour for the same sized particle of the ray.

Practical experiment to observe:

Take two white card-board sheets and two black reflective-sheets of size 12"x12" and 4"x4" respectively. (Reflective sheets are available with the road sign board makers). Laminate one black-reflective sheet 4"x4" at the centre of the white card-board of size 12"x12", leave the others two sheets (white card board and black reflective sheet separately). Now hang/suspend/paste all the three i.e., white card-board sheet, black reflective sheet and the card board sheet which has been laminated with the reflective black sheet. All the three sheets should be at a suitable height over the wall and at some distance say at least 3-4 feet away from each other. Observe at night by keeping switch off all the lights. Take a torch in your hand and keep it very close to your eyes by touching torch side to the ear. Focus light on the white card-board sheet, it would be seen as white. Now focus light on the reflective black-sheet; reflected light would be seen as gray. Now focus light on the card-board on which reflective black sheet has been laminated. You will notice outer part of the white card-board sheet as black and the inner black reflective sheet as a white in the centre.

Why this has happened?

Central black reflective-sheet is reflecting back more quantity of light rays than the quantum of rays reflected by the outer part of the white card-board sheet. So our brain computed the spot and observed that, the central spot which is reflecting more light must be the white and whereas outer surface which is reflecting lesser rays must be the black, so we got the decision. In this experiment our brain is wrong in observing the true colours.

Conclusion:

This proves, what has been said above that our world is colourless (not colourful) but we notice or observe colours to differentiate the types/ sizes of the FSOM rays particles released or emitted by the matter.



Could matter (or celestial bodies) exist in space where temperature drops to -273°C i.e., absolute zero?

Note: This is a just preliminary speculation.

- At this temperature, no body can emit FSOM rays. Emitting of FSOM rays is the basic principle of a celestial body, which can keep a celestial body away from another (centrifugal force is the by product of the rays' function). Hence at this temperature cool-body which is at absolute zero temperature would be get attracted by the FSOM rays emitting body. It would come closer and closer by gaining FSOM (white-matter) from the emitting body and would start radiating some rays. Besides gaining and radiating FSOM rays, body would start restoring its gravity too. Size, speed, motion direction, density and the intensity of FSOM-rays emitted by the both bodies would determine its (body at absolute-zero temperature) fate.
- Challenger had observed that any body at absolute zero temperature besides loss of release of rays would also lose its own gravitational property and thus would get attracted to another body. Hence such body cannot exist. This has been explained under chapter 'Gravity'.
- Challenger has further observed that like density of the atoms, which relates to gravity temperature of the atoms (body) must have some relationship to gravity factor. It seems that there would be no mode/means by which we can measure the change in gravity with the variation in temperature to atoms (body).
- Temperature of the black-holes can not be at absolute zero, their temperature could be any but not sufficient for the rays to escape gravity of the black-holes.

Conclusion:

No where in the Universe any matter (atoms) or celestial body except FSOM (white-matter i.e., Sub atomic particles) can exist at absolute zero temperature.



Is speed of the rays of different colours different?

World for its easy understanding and also for the easy calculations purpose has considered speed of light the same for every different colour rays. This was/is the necessity for the purpose of calculations to consider one speed of light for all the colour-rays, but with the passage of time the concerned have started accepting that light/rays of all the colours have only one speed.

Challenger:

All the different colour rays have different sizes of their particles (spheres) and also have different densities being materialistic.

Blue-light has short sized particles (spheres) which would face greater resistance on propagation than the red-light which is composed of large-sized particles (spheres). Further, densities of the particles also play the role in determining speed of the colour rays; lesser the density greater the speed. If red-light particles (spheres) have high density than the blue-light particles (spheres), then speed of red-light would be slower as compared to the blue light. World has understood and measured the sizes (wave lengths) of different colour-rays' which are the sizes of particles (spheres) but World has not yet understood or have not given a thought about the densities of the light-rays or densities of different colour-rays' particles (spheres).

Conclusion:

Nature may by giving densities in such a way to the different colour-rays, may have resulted to adjust speed of all the colour rays same or adjusted speed as close as possible. Or are the colour rays having different speeds; this needs confirmation by the Experts.

(H) Final conclusion about the understood, concluded and proved unique properties of the light/rays by the Challenger:

Final conclusion about the understood, concluded and proved unique properties of the light/rays by the Challenger.

- Light-rays and all other rays of any kind are a state of the matter; Challenger has called this state of the matter as white-matter or Fourth State Of Matter (FSOM)
- Particles of the rays have the property to over lap and to shed overlappings to develop them-selves denser and rarer as per the situation.
- Particles of the rays' beings materialistic put thrust over the bodies on their escape and also by their strike over the bodies.
- White-matter particles under specific conditions get transformed to other states, like they are being transformed from other states of the matter.

Besides this, white matter particles of different kinds have the property to change from one kind to another through other state of the matter by making other state of the matter as its catalyst. Bio-matter converts one kind of the white-matter to another in a very unique way.

- Rays composed of spherical particles on their escape from a spinning body adopt a curved/spiral path. Their said property provides spin (torque force) to the celestial body from which the rays escape and also give spin (torque force) to the celestial body on which the rays strike.

Further, their this property forms a mirror reflection pattern of rays over the equator plane of the spinning body which results to keep trapped other adjacent (effective range) small celestial bodies in this plane.

Again materialistic curved rays emerging out from the spinning giant body put a driving effect to force the adjacent (effective range) small celestial bodies to orbit around the giant spinning body.

- Particles of the rays being materialistic put thrust pressure (because of resistance) over the particles of the rays which are coming from the opposite direction, thus act as repelling rays like rays' particles of the magnet from the same pole are expelling the magnets (or rays'-particles).
- Much more beyond the said have been illustrated under MATERIALISTIC UNIVERSE.

ODOUR/SMELL-PARTICLES:

(I) Unique property of odour/smell that these are particles and a state of the matter has been understood from bio-effect of the smell-particles over living beings.

Smell/odour:

Smell/odour too is a state of the matter. Challenger has given name to this state of matter as OSOM (Odd State Of Matter) whereas for the light/rays (white-matter) he has given name to light/rays FSOM (Fourth State of the Matter). Smell particles are free from each other and their movement depends upon and carrier (medium), such as gases, liquids and also by sticking to solids.

Every substance on its decomposition changes its chemical composition with varying rate depending upon various factors and circumstances. Change in the chemical composition releases some matter in the form of smell/odour particles (OSOM) and FSOM-rays (white-matter). These released smell particles (OSOM) are carried away by the medium (say air or water). Senses of all living being have been designed to recognize this matter (OSOM) in the form of smell. Good or bad smell is for the individual specie. A smell which is bad/foul for us may be good and pleasing for other specie if that smell particles are its life building matter.

Smell particles released in the medium are absorbed by the living beings. A matter (chemical) which is unstable to its composition releases smell-particles but in fact bio-matter is the main producer and also the consumer of smell matter.

Does any other unique type of smell exist?

The smell which is known to us is a smell (OSOM-particles) which can be carried by a medium (liquid or gas say water or air). These smell (OSOM-particles) when come in contact with our (any living creation) smell-sensing organ, our mind can differentiate the type of smell (OSOM) particles.

Some animals can smell the food when the flow of water or air is in the opposite direction. They have the capability to sense smell from miles. So this suggests that smell particles must be of more than one type. Such type of smell-particles may travel at their own like FSOM-rays, but speed of such smell particles cannot be too fast, because smell -particles are much bigger in size and also of more weight/mass than FSOM (light etc.). Human can not sense such smell particles, because we have not developed such capabilities as some other species have developed.

What forms/creates the smell particles?

It is the white-matter (particles of light-rays, Particles of any other kind of the rays, electron-particles and particles of the magnetic-rays) which gets transferred to smell/odour-particles when atoms of the matter form a molecule or compound.

Homeopath riddle related to smell:

It was telecast on Television Channel Discovery on 11th Jan-2005 that it is still a controversy that extremely diluted homeopath dose of the medicine is nothing, but pure water but the homeopaths claim that their dose works. They say it is not the water; the water on dilution **retains the memory of the medicine**, even if it does not contain even an atom/ molecule of the medicine due to its extreme dilution.

World firstly accepted the claim that water retains the memory, but later Modern Physicists discarded the concept. Now the Modern scientists are not accepting it as a medicine, they say that the medicine works due to the **faith** to some extent. But the practical performed by the homeopaths proved that the extremely diluted dose is working well even on the animals, which are not under the preview of the faith healing. Some masters of the homeopath tried to convince the scientist community by a number of practicals with positive results over the patients and animals, but still nothing has been achieved in canvassing the Modern Physicists.

Diluted homeopath dose can be a drop of a the medicine in the water of a swimming pool, or in the water of 10 swimming pools or one thousand or any numbers of pools. In such case not even an atom/molecule of the homeopath medicine can be found in the dose of the medicine, which a patient would take. Homeopaths claim that such dose given to the patients would work and on practical it is working well too.

Modern scientists (Physicists) have no answer for it and the homeopaths have no scientific means to prove their claim,

except to suggest that the "water retains the memory of the medicine".

Challenger:

Challenger has got the answer. Before the explanation, some already understood facts require rethought in mind.

- Challenger has observed and concluded that the smell is not merely a smell but it a state of matter which the Challenger has called as an Odd State Of Matter (OSOM). Smell is composed of the extremely finest particles of the (OSOM) emitted by the known three states of the matter (solid, liquid and gas).
- Sharks and some other sea creatures can get a message of the blood- smell from miles and miles away. This helps them to move towards the food.
- Smelling a rose or any pleasant- smelling flower or food, produce rejuvenating effects over the mind, thus over the body. So smell (OSOM) particles which generally do not react with air (gases) have their good effects (chemical reaction) over the living-cells.
- Homeopath medicine is not diluted by mixing 'a' drop of the medicine in the water of a swimming pool or in any water tank of the larger size. A drop of the medicine or even a lesser quantity is mixed in a glass tube containing water. It is well shaken. A drop or even a lesser quantity is taken from this shake and mixed with the water as done earlier. Process is repeated again and again to dilute the medicine. Medicine is diluted to the extent that hardly any dose would have an atom or molecule of the medicine.
- Mixing process of the homeopath medicine in the water is such that smell particles (OSOM) dissolve well in the water. A drop of the medicine is sufficient to charge the extremely large volume of the water with its smell particles (OSOM). So each drop of the medicated-water contains the smell particles (OSOM) of the medicine.
- Author has further observed that the smell-particles (OSOM) too do not react with water to change its identity or the property. **Smell-particles (OSOM) only react with the living mechanism to lose their property by changing the property of the living cells or mechanism.** This property acts as the medicine to treat the living-cells or the cells- organisation or the body in whole.

Conclusion:

Challenger has concluded that the medicine which has no atom or molecule of the medicine is actually the medicine based only over the smell particles but has no property of the medicine in its chemicals (chemicals understood under chemistry). It is only the smell-particles which are treating the patents (human and animals too) but not the known chemicals of the medicine.

Scientists were/are not accepting the claims of the homeopaths because in allopathic (chemistry) it is the medicine formed of the known three states of the matter (solid, liquid & gas) which works/reacts to provide treatment to the patient. But in case of extremely diluted homeopath medicine, it is the smell-particles (OSOM) which acts as the medicine. Scientist community can only be convinced, if they (Physicists/Homeopaths) develop a machine which can identify the particular smell particles emitted by a particular chemical (medicine) among a number of other smell particles present in the medium. In the absence of such a machine (analyser) it would be better to accept the claims of the homeopaths by understanding the facts as explained above by the Challenger.

Though most modern Experts understand that smell/ouder are the particles of the matter but Physicists have not yet redefined the states of the matter. The requirement to understand smell-particles a matter or its chemistry is the necessity of the chemists/pharmacists but not of the Physicists but whereas right to declare smell particles as a state of the matter lies with the Physicists. Because this snag, the World is being deprived by the Physicists from correctly understanding the states of the matter, resulting to deprive the human from most of the gains, which human could have.

Final Conclusion:

Smell/odour particles (OSOM) are a state of the matter and have chemical properties to act over the bio-matter (living beings).

ELECTRON-PARTICLES:

(J) Unique property of electrons that these are a state of the matter has been understood from some facts and experiments.

Comparison of electron-particles with the particles of the gases to understand electron-particles as a state of the matter:

Practical:

Attach a steel pipe to the gas cylinder having stop-value over the cylinder. Open the value, gas would come out through the pipe end and on just closing the stop value, the whole gas in the pipe line would adopt the pressure of the atmosphere, thus there would be no gas coming out of the pipe end. Now put a resistance at the end of the pipe line by plugging it with a cap having a fine hole in the cap. Again open the value, gas would come out from the fine hole. Now again close the value, this time the gas flow would not stop immediately but would take some time till the gas in the pipe line adopts the pressure of the atmosphere.

Now have a LED (Light Emitting Diode); connect it with the wires and the other end of wires with the plug to draw power (electricity) from a 12 volt battery (Volt is the potential or pressure difference of electricity/electrons between the two ends of wire). Now put a suitable resistance before the LED and have a switch (on/off) after the battery. On the switch; the LED would start glowing. Now off the switch; LED would not stop from glowing at once, it would keep on glowing for some duration till the compressed electrons at 12Volts in the wires in between the resistance and on/off switch flow out from the LED.

This experiment proves that electrons are compress-able like air and air is a matter thus electrons too are a state of the matter.

Different kinds of electrons to prove that electrons are a state of the matter:

Electrons are also of different kinds like different kinds of rays (light or any). For electricity (power/energy) purpose different kinds of electrons may be the same but no two different kinds of electrons produced from different modes can be same from every aspect. Electrons which form static charge would be different than the electrons produced by the dynamo. Further electrons produced by the chemical reactions, like from battery cells must be of some different nature from some aspects. Our body produces electricity (electrons) from the chemical called ATP (Adenosine Tri-phosphate). Challenger has observed and concluded that electrons produced by the ATP for every different kind of work is different in some properties. All about this, he has illustrated in his book 'YOUNG AT 100' over the ageing process slow down (health). Different ATP thus different kind of electrons are needed by the body for actions like, yawning, dreaming and for having an interest to a specific subject/work.

Conclusion:

Different kinds of electrons produced from different modes by their chemical reactions prove that the electrons are not merely a form of energy but a state of the matter too because different kinds of electrons has different effect over the biological matter.

(K) A unique law over electrons confirms that electrons is a state of the matter.

Electrons understood as energy do not obey the law that energy can not be destroyed but can be transformed to any other state of energy but whereas electrons understood as a state of the matter obeys the law that a matter can not be destroyed but can be converted to any other state of the matter as illustrated and proved below confirms that electrons is a state of the matter.

Is electrons a form of the energy or a state of the matter?

World: Electrons are a form of the energy. Energy cannot be destroyed but can be transformed to another state of energy but energy (electrons) is not a state of the matter.

An example of the transformation of a kind of energy to another appeared in the newspaper as under.

From Newspaper dated 11.12.2009

Does energy get destroyed when we try to push a heavy rock with all our might and fail to move it?

Energy is definitely used up. Your force may not move the rock through a meas-urable distance but other changes do occur. Smallest movement of the rock might account for a lot of energy expended. But lot of energy also goes into pumping up your muscles, in pumping blood. In the tension in your arms and legs and in heating up your body. As your body heats up the energy is lost to the atmosphere through radiation. You will begin to perspire and energy is used up in evaporating that perspiration to keep you cool. If you have been working hard to push the rock you might have scratched your palms. That would also use some of your energy.

You never destroy energy; you only transform it.

Challenger: Illustration given below proves that the electrons are a state of the matter but acts as energy.

Under above said example, Physicist has replied to satisfy the concerned that energy can not be destroyed but can be transformed to another state of energy. But below is a query put by the Challenger that where would the electrons go if we start a generator but do not connect its out going terminals to any wire/electrical device?

Challenger sees no proper reply would be from the Physicists and further puts a query that where their understood fact (false) has gone that we cannot destroy the energy but can transform it.

Challenger has understood that the generator produces electrons (a state of the matter-X) in the rotor from a state of the matter-Y existing in the space with the help of the magnetic rays (another state of the matter-N & S). If the electrons (a state of the matter-Y) does not find easy flow from the wires to the devices, electrons (a state of the matter-Y) would go out from the terminals (from rotor wires to terminals) to the space back by converting back to its original state-X or to another state of the matter-Z. This understood fact by the Challenger leaves no chance for proper answer by the World to the said query over electrons. Hence electrons are a state of the matter which acts as energy on its utilization.

The same reason is with the magnetic-rays. Magnetic-rays are not merely a form of the energy but magnetic-rays 'S' and 'N' are a state of the matter formed from a state of the matter-A from the space by a magnet-matter. This has been stated and illustrated over paragraph **MAGNETIC-RAYS** in this chapter and over chapter **MAGNETISM**.

Note: Above said answer by the Physicists is also false, because there is nothing like energy as understood; all understood as energy is also a state of the matter.

MAGNETIC RAYS:

(L) Unique property of magnetic-rays that these are particles, thus a state of the matter has been understood from some facts.

Challenger has understood that the magnet (atoms of iron) by acting as catalysts are converting stable white-matter (FSOM-A) of the space to two different white-matters (FSOM-S and FSOM-N) which are unstable and these states of the matter (FSOM-S and FSOM-N) attract each other to form again a stable FSOM-A. Direction of the magnetic-rays emerging out from a bar-magnet understood by the Challenger too proves as stated above. This all has been explained under the relevant chapter 'MAGNETISM'.

From the above and illustration under the relevant chapter, it is proved that magnetic-rays are the particles (matter) formed from the space-rays' particles (FSOM-A).

(M) Unique property of magnetic-rays that these a state of the matter has been understood from their bio-effect over living beings.

It is well known fact that magnetic rays cause bio-effect over living beings. If magnetic-rays were merely a form of energy, these rays except attracting iron could not cause different biological effects over different living beings. Thus magnetic rays are a state of matter.

(N) A unique law over magnetic-rays confirms that magnetic-rays is a state of the matter.

Magnetic-rays understood as energy do not obey the law that energy can not be destroyed but can be transformed to any other state of energy but whereas magnetic-rays understood as a state of the matter obeys the law that a matter can not be destroyed but can be converted to any other state of the matter as illustrated and proved below confirms that magnetic-rays is a state of the matter.

Is magnetic-rays a form of the energy or a state of the matter?

World: Magnetic-rays are a form of the energy. Energy cannot be destroyed but can be transformed to another state of energy but energy (magnetic-rays) is not a state of the matter.

An example of the transformation of a kind of energy to another appeared in the newspaper as under.

From Newspaper dated 11.12.2009

Does energy get destroyed when we try to push a heavy rock with all our might and fail to move it?

Energy is definitely used up. Your force may not move the rock through a measurable distance but other changes do occur. Smallest movement of the rock might account for a lot of energy expended. But lot of energy also goes into pumping up your muscles, in pumping blood. In the tension in your arms and legs and in heating up your body. As your body heats up the energy is lost to the atmosphere through radiation. You will begin to perspire and energy is used up in evaporating that perspiration to keep you cool. If you have been working hard to push the rock you might have scratched your palms. That would also use some of your energy.

You never destroy energy; you only transform it.

Challenger: Illustration given below proves that the magnetic-rays are a state of the matter but acts as energy.

Under above said example, Physicist has replied to satisfy the concerned that energy can not be destroyed but can be transformed to another state of energy. But below is a query put by the Challenger that where would the magnetic-rays go if we place a steel plate over the magnet as stated below.

If we hold a magnet over the wall with some hold-fast and then place over it a steel small object to stick over it, we would be understanding that the force of magnetic rays are balancing the gravity force thus it is keeping the steel object in contact with the magnet by its magnetic-rays. But if we place magnet over the floor and place over it steel object, where the magnetic rays force is going without being utilized to prove the understood fact (false) that energy cannot be destroyed, it can be transformed.

A similar example about the electrons is over the paragraph over ELECTRONS in this chapter.

Both the examples about Magnetic-rays and Electrons prove that both are the state of the matter which act as energy on their utilization.

Note: Above said answer by the Physicists is also false, because there is nothing like energy as understood; all understood as energy is also a state of the matter.

DARK-MATTER:

(O) Unique property of light/rays understood from true working mechanism of solar/ planetary system, galaxy system and Universe has proved that there is no dark-matter and dark-energy; Physicists have falsely understood dark-matter which in fact is white-matter (light/rays' particles and all ejected particles by the Sun/stars/bodies are white-matter).

Explanation in short to this speculation that dark-matter exists or not is not possible. However, proper illustration has been given under the relevant chapter 'DARK-MATTER'. Here, Challenger would like to say that without understanding the truth i.e., the existence of 'white-matter'; there is no use to speculate existence of 'dark-matter'.