



IMMEDIATE INFORMATION FROM AT FAR ANY.

BY

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Absraxt: When they talk about a celestial/ terrestrial object and, say that it is so many billion light years away from us; they mean it to say that, the light received now from that object, was emitted by that object, those many light years before now. And we are seeing it of that time of billion light years ago[lt. yrs.] ago.

Recently, a few months before, NASA e posted an event at far of billions of lt. yrs. Before; that of a bursting terrestrial satellite. In fact, that event is not of that billion lt. yrs. Ago; but, is happened at present within few hrs or say. It is learnt from the microscopic study of light further. It is discussed in this article by the author of the article, me, below.

Key Words: Light photon, the most elementary massparticle Ga, non-electro-manetic field, ptonon molasses.

Explanation: Different supporting facts to above heading or abstract matter are given here below.

1. **Speed of a Field in Free Space:** A field gives action at a distance as per Spooky Theory of the Great Scientist Einstein. The theory means to say that, elementary particles in cosmos, that the most elementary particles in space; which are h/c^2 by mass, form a perfectly rigid line-rod and transfer the effect of a force to a distance up to infinite distance. It is observed in respect of dipole straight antenna. Actual experiment done around 2000 is given below.

Fig. [38] (i)

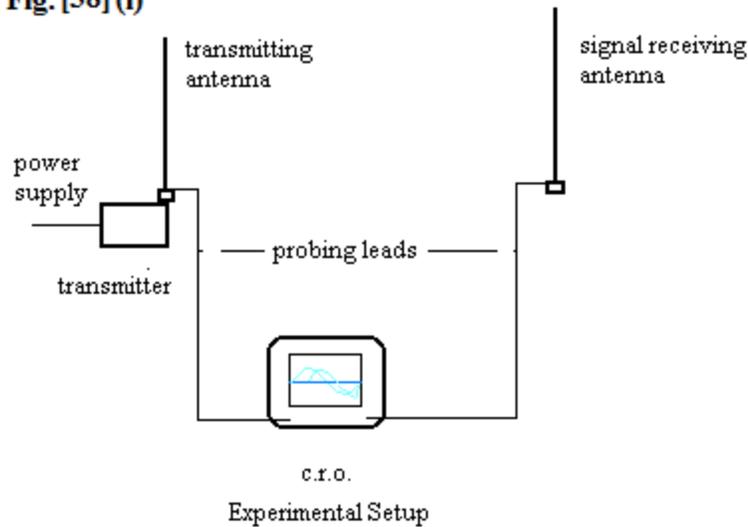


Figure: 1.

To verify the Speed of Electromagnetic Field in Free Space

Till now, the speed of electromagnetic field when oscillating, the field lines in linear direction, perpendicular the field and also when the field is oscillating in angular direction, is not measured. Only phase advancing of radio waves in ionosphere while getting reflected, is measured. Only light speed is measured till now; with the observer and the light source attached both to the same inertial frame. And it is c . But, erroneously it is assumed as speed of light in free space constant equal to c ; irrespective of relative speed between the observer and the source of light. In Kennedy and Thorndike experiment too, they erred the same way. In their experiment, the distance between observer and the source of light is constant through out and the set moves in space keeping distance between observer and the source of light. They have assumed the space as an observer erroneously. Observed the speed of light c as in above experiments, and stated that, speed of light is constant c in free space, irrespective of any frame and observer. Actually the observer notices the speed of light is dependent on relative speed between the source of light and the observer, in relativistic derivations of Lorentz, which are accepted theoretically world wide. So considering light to be electro-magnetic waves in free space they had taken for granted the speed of electromagnetic speed in free space to be equal to c . Therefore, around year 2000 I had experimented as in fig.1 to measure speed of electromagnetic field wave of 45.75 MHz with the help of carrier wave only of walky-tacky set having straight dipole antenna. Tx, the transmitter and Tr, the receiving antenna.

During the experiment Tx was fixed at a position and, Tr was moved from nearest to the two wavelengths apart. Both signals Tx and Tr were probed on suitable c.r.o. sending and receiving antenna follow transformer action. Hence, for simplicity of observations, the Tr signal was reversed changing its phase by 180 degrees. Then, the signals gave picture on c.r.o. screen as shown in figure- 2 below.

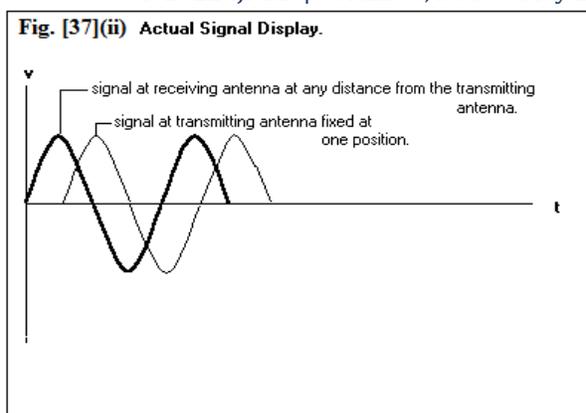


Figure: 2.

Sent and Received em Signal.

The sent signal by Tx travel through space. Both the signals are made to show standstill. By c.r.o. control. In the figure the phase difference is seen constant, at any position of Tr from Tx. Tr is moved slowly, gently away from Tx. But, always the phase difference between the two signals remained the same. If the Tx signal were have speed between zero and infinity; the phase between Tx and Tr signals, would have changed as the Tr were moved away or near to Tx. Hence it is very clear that, the electromagnetic field have infinite speed. It does not travel in free space; but, it just appears as soon as its source appears. the phase shift between Tx and Tr is due to Tx and Tr impedances. **SO IT IS THE FACT THAT ANY FIELD JUST APPEARS IN FREE SPACE; SOON ITS SOURCE APPEARS IN SPACE. IT IS NOT THAT SPEED TRAVELS AT SPEED C OR ANY OTHER. THEY ARE THE PARTICLES CORRESPONDING THE FIELD; WHICH TRAVEL ALONG THEIR RESPECTIVE FIELD LINES.**

Mechanism of Photon Release From an Atom: This mechanism is first ever explained by the author. For, please see the figure below.

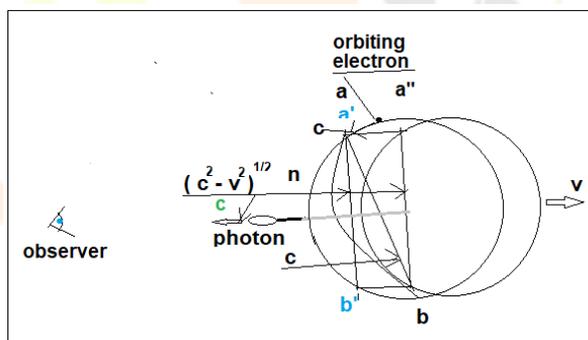


Figure: 3

Light Photon Release From an Atom

In the length contraction and time dilation phenomena, mathematics; it is very clear that, a length moving, in direction of sight of vision of observer, the length contracts for him and time dilated as judged by the observer, in the rest frame of the length. This effect doesn't take place in perpendicular direction to the sight of vision of the observer. Some basic statements needed are missing in Einstein's papers on relativity. One of its is that, an event is said to have happened; when the signal photos of the event, reach the observer. Till the time the signal is released from the event, till it reaches the observer, the source of event travels further, and the event is seen to have happened at the place, where the source of the event is then in space. It is seen in Lorentzian transformations of relativity. This result is not taken seriously by the scientists. These are explained in details in my book on relativity and paper of length contraction and time dilation/contraction duly published length back and uploaded on aca.edu web site, available. His phenomena is seen because of the photon field of the source of event. The field lines are carried by its source as they are emanated. There is signature on the event signal that, the event had

happened on its source, where ever the source may be then, when the observer knows about the event. and signature of speed of source w.r.t. the source. The photon field signs them. The photon field of the source is established through out the space soon the source appeared at infinite speed. And light photons are being released as the moving source appeared. Therefore, The photons are the most elementary particles h/c^2 named Ga. Freely existed in space forming the mysterious dark energy 68% of the total. Which come in line of the field of the event they get the information signed on them by the photon field and which are near to the observer, the observer gets that information soon the event happens.

The photons in a photon line, travel with the source. In the figure-4 below, The nose of the plane establishes photon field all where say a by the event. And the observer see it immediately. The space. There are the most elementary particles Ga forming photon in space. The photon field lines align them and monitor which enter in the field, the photon field have event details and it excited the photons in itself. there are photons near observer. They are excited by the field line and he observer see the event happenig at its instant; not after some lighttime.

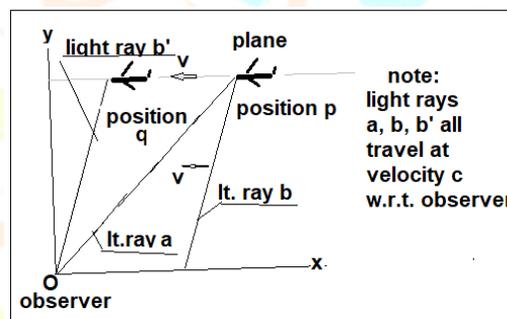


Figure: 4.
Photon Field and Photon

At times, when the plane is at position the observer see it by the help of field lines; at the same time ray b lagging ray a is also full of instant to instant by photons as above. When the plane reaches position Q, the observer see the plane by ray b' which is b and have travelled with plane at speed v along the plane. Observer see the plane at position q with the help of the ray b'. Thus, the photon field lines travel along with its hosts maintaining their position in space.

Every atom has its photon field radially spread through out the space. While forming a terrestrial object in a stardust cloud; the atoms accumulate together. Their photon fields are with them at every point in their travel. Suppose an object is born at billions of light years away from us before some time. And burst now. It bursting now is seen by us at its bursting moment; because its atom's photon lines are carried by its atoms along with them as they are, photon lines are full of light photons from the atoms to the observer; and the photon line at start on the atom excites all the photons in the line by the condition of the atom itself making known the bursting of the star or the terrestrial object though the object is millions of light hours farther from us. Inside the object the atoms are in motion and emit their energy as light. Those photons travel along the same field lines and the respective field line gives the condition of its host and excites that condition throughout the field line from the host to observer. After the bursting of the object, its fragments are travelling in

space apart from each other to large distances. After billions of years, they will be at some corners of the universe mixed in cosmic background. Thus, due to photon field lines and photons filled in it and the field line excites all photons in it immediately by the condition of its host; we can see events at any part in space soon after the happening and not millions and billions of light years after the event. As the field line signs the condition of its host from start of it on its host to observer; the observer finds the wave length of the photons, from what distance they are coming; no; at what distance their host is and the condition of the host and other dependent information.

As gravity lines do pass through masses in their paths; the photon lines can not pass. Because, Michelson Morley when experimenting in eclipses of Io the satellite of Jupiter; He could not find the sinking of Io behind Jupiter clearly; as He could find it arise from behind the Jupiter. Because, while sinking, the light photons from sunk portion just, the photon field of photons in travel from Io to earth is lost. Therefore, those photons lose their excitation and become molasses. therefore, the moment of sinking Io was not seen by Morley exactly during rising from behind the Jupiter. Its photon field lines are full of photons from Io to the end of respective photon lines, on what that end. The photon lines end on Jupiter during Io's eclipse. And as they are open to reach earth photons of Io travel along the field at speed c from Jupiter to earth. And Io is seen after minutes after it arose to us but sharply for, we get the light photons duly excited by its field lines.

Ga particles are, every Ga particle is very peculiar; so that it is attached to its host atom's photon field only. And Ga particles are spread all over the universe in respect of each atom. The Ga particles of an atom follow only their photon field of their host atom; hence, when two normal beams of light cross each other the light photons of each pass along their field lines emanated from each of the respective atom. At CERN collision of photons travelling opposite to each other, was carried out. For that the rays were made so dense that they won't remain gap available between consecutive photons to allow to pass to oppositely coming photon. After collision, they must have lost from their respective photon fields and hence might have been remained in space around as molasses.

It is said that, the light is electromagnetic radiation. It is taken from Max Planck's equation derivation for speed of light. He got light speed as $1/(\text{permittivity of electric field} \times \text{permeability of magnetic field})$ both in free space. But, both the fields are inside of an atom between orbiting electrons and respective protons. When an orbital is excited, it emits a photon from respective excited electron and releases it in space outside the atom. There is not any electromagnetic field with the light photon. They follow the photon field respective lines. Within an atom itself, the light photon emitted by the atom has speed c . Therefore, the respective excited orbital must be rotating the nucleus at linear speed c in its orbit.

As gravitational field is directed inwards of the mass particle; the photon field is directed outwards of its respective atom.

It is read in a research paper by a scientist that, the universe's expansion will stop; but, it is not possible. Instead its speed is going to be c at the position he referred and it will be seen again increasing giving some Hubble constant. But, in this case the light photons emitted outwards the universe by the expanding universe at its seen edges will be directed towards us.

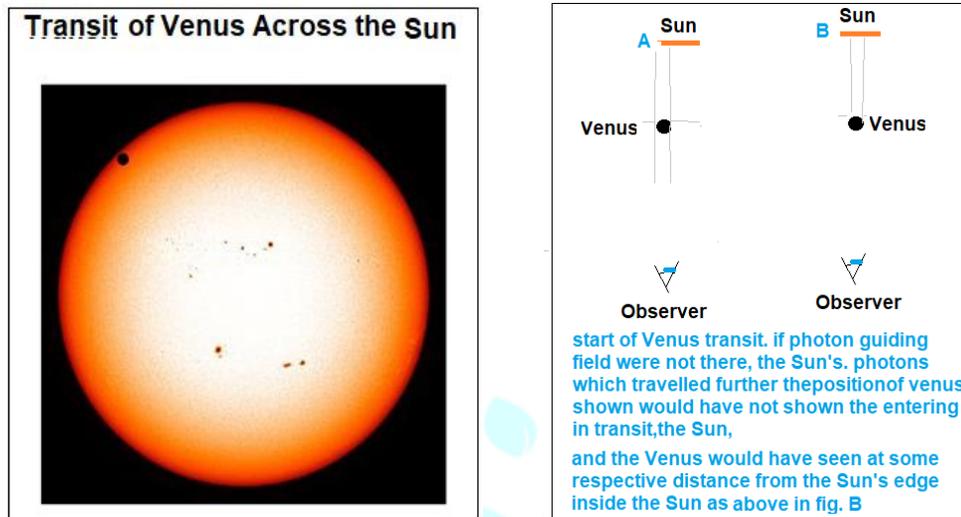


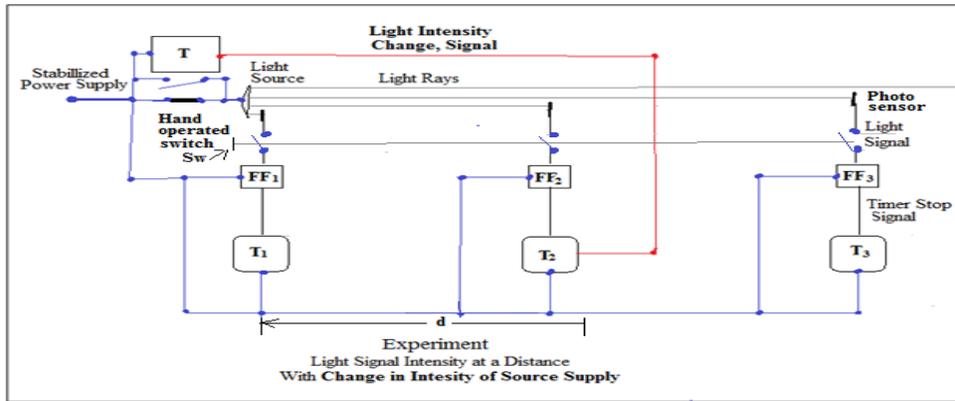
Figure: 5.

Transit of Venus

The transit of Venus has taken place in 2012. Physics assumes that, when we receive an event signal at an instant of time say t_1 , the event had happened before 'ct' time period. It is even billions of light years too. It violates the Lorentzian relativistic transformations. For, as per it, in length contraction, time dilation/contraction. The signal received by observer gives, the position of the signal-source at that instant of time t_1 only. Years before, I was thinking that, the received signal gives the condition of its source at the instant of time, when the signal was released by its source. But, thinking on and thinking on; it is perceived that, the received signal also gives the condition of the source at the instant of receipt of the signal. For, it is found by the author that, the signal photons, are excited by their photon fields, as per the condition of the source. Recent observation of solar flares at surface of the Sun and its inside gives the information of the Sun when the solar winds are examined below the surface of the Sun and above it; it gives varied information. Above Sun's surface the source of signal works the Sun's surface and for its below surface the source is the interior Sun. Therefore, it should be taken for granted that, received signal, gives the signal-source condition at the instant of time when, the signal is received by the observer. Thus in respect of transit of Venus above, if we assume that, the start of transit and further instants would be communicated to us; after respective time period ct after the signal are released from Venus; where 'ct' is respective distance of Venus from us at that instant of start of transit of Venus; then, I humbly request your deep thinking, to what I state here that, the Venus shadow, would have appeared on the Sun, inside the Sun at the distance respective 'ct', from the edge of the Sun. Because, the light photons travel with their respective photon fields. This fact is violated if we assume the worldwide accepted concept that, an observer sees the position of the signal-source position/location at the instant of release of the signal by its source. Therefore, thus, transit of Venus event supports my concept of the photon field. It is different from Maxwell's electro-magnetic field. Above self-explanatory figure-5, advocates my concept.

Thus new concept [the photon field by the author] can be verified by the below experiment. The photon field referred here is not electro-magnetic field. It is like gravitational field. Gravitation of an object is directed radially inwards the mass center of the body; whereas, the photon field is directed radially outwards from the mass center of the body.

To Detect Mode of Travel of the Light; Whether mechanically Purely or, There is its Original Photon Field.



A beam of parallel light is interrupted partially by three numbers of light sensors converting light into electrical signals. The light signals converted into electrical signals are passed to respective three Flip-Flop circuits. The flip-flops deliver their signals to respective respective timers.

The FFs and the timers are to be set to give working as follows.

Soon the light is 'ON', all the timers should start ticking from their zeros at the same instant. The supply screened cables be of equal lengths from the power supply to the respective timers.

Switch On' the high intensity of the light. The timers should be preset for shut-off due to its operating signal's value change. And it is the 'prime step of this experiment.

All the timers will be 'OFF'.

Read the time periods shown by the timers.

1.If the light intensity travels through free space at the speed of light; then the time periods, t_1 , t_2 , t_3 will be in increasing order.

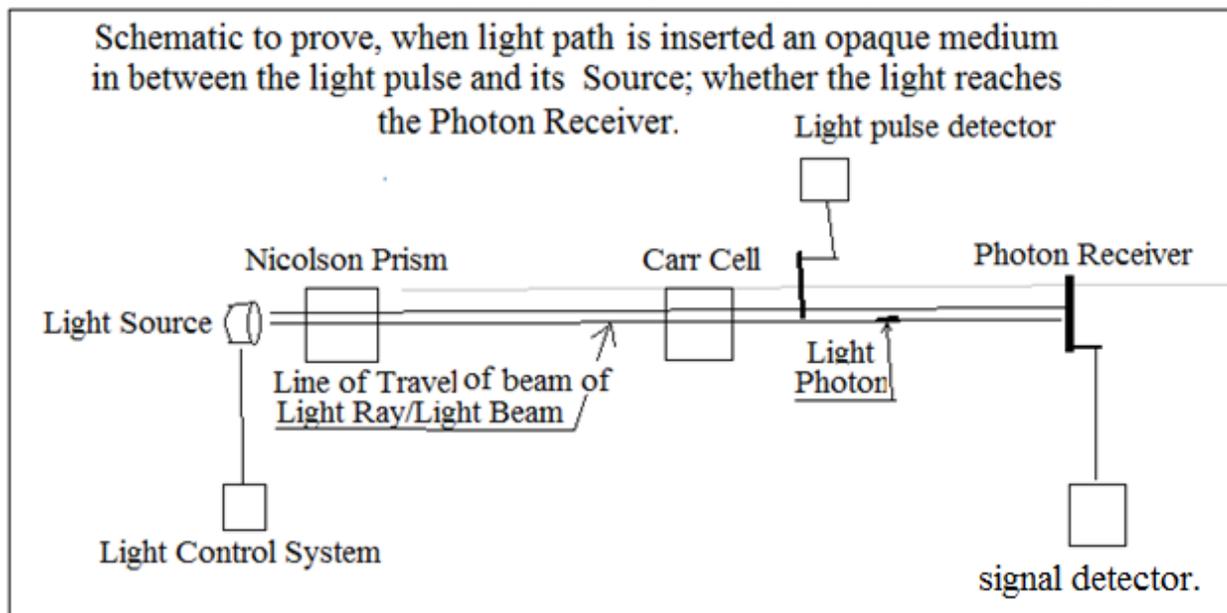
2.If the light intensity travels immediately; t_1 , t_2 , t_3 will read the same value.

Allowances as per list counts and tolerances provided be accounted for.

If the results are as per (2) above. It will kick back us to verify the cosmic observations made till yet.

Obviously the the timers required are very sophisticated nano-timers. The electronics required should have minimum possible operating delays. Accordingly to minimize the electronics' operational delay times; the distances between the sensors be large enough. The minimal time period of light intensity switching is to be also considered in spacing the instruments or the equipments. Obviously the light source is to be LED/Bunch of LEDs with light rays paralleling device.

To Detect Mode of Travel of the Light; Whether mechanically Purely or, There is its Original Photon Field.



Every detector is to work as signal receipt indicator, and signal storage device, and necessary timer for its respective component. Please note.

Please have kind deep your valuable perusal through above self explanatory figure. A light pulse passing through wilkinson prism, when pssed through Carr celland is in between the Carr cell and the receiver; the Carr cell is made off its electrical supply; thereby cutting off the field of the light.

Then, if the light pulse reaches the Receiver; then, light travels in space mechanically. And if the Receiver doesn't receive the light pulse in this case; then light has its own original photon field.

In order to see whether the light propagation is due to EMField., then a beam of light or in this experiment a pulse of light be passed through an electrical coil specially designed for this experiment; Then, its meter should exhibit a kick for the pulse confirming the electric charge on it.

The experiment be performed with Simple light and laser light separately with the same set of experiment, to observe any different results. .

Operational Requirements:

1. Light Source: -

- a. It should deliver a beam of light of strength well sufficient to produce signal by the photo receiver.
- b. The light beam should be wide enough, to remain to pass across the light pulse detector and reach the photon receiver.
- c. There should be provided two nos. of light beam equipments, sharp enough and having cross section same all over its length of travel. Out of the two, one should be suitable laser beam and other suitable LED light beam. Their light-intensity should be well sufficient to generate signal by receiver, light pulse detector as interceptor , with the light beam length minimum possible up to **one mm**. both of each light beam should be usable independently, separately, one at a time by manual selection.

d. Each light beam should be initiated and stopped automatically by initiation of its ON/OFF controls. The ON/OFF controls should be initiated by the light pulse detector and photon receiver as mentioned below.

e. In the light source provision to pass a continuous either any light beam or one pulse of it of one mm. or continuous timed micro-frequency pulses.

d. The light source is to be provided with all control and monitoring electronics required for this set invariably as described below.

e. i) priming (supply ON) of all components of the set should be along with the source of light. Light control should be separate from /than the 'supply ON/OFF'.

ii) light beam, light single pulse control, light pulse-ray control ; each control should be provided separate from each other.

iii) Each component should be provided with manual micro switches for each of its ON/OFF. other automatic control and monitoring switches where ever necessary to enable above working of the set; must be provided the solid state(electronic switches with firm acting as per set timings. The switches provided should have their operation time

f. Each of the light beam provided must be capable to give a single pulse or continuous ray of pulses. By this action check the alignment of equipments and if necessary adjust accordingly to suit our experiment. Provision for horizontal alignment in longitudinal direction to adjust the distance between any consecutive components within one mm. should be provided. Other alignments of light ray should be provided fixed within accuracy of 5% of the light beam thickness/ light pulse thickness or the diameter.

g. Both of light pulse generator shall be capable of generating light single pulse of length of 0.3 meter. And it should be capable of generating a train of pulses of 0.3 meter each at its alternate cycle; such that one cycle will generate a pulse and immediate ensuing cycle will go blank; again its following cycle will generate a pulse and thus, the operation shall go on repeatedly.

g. The pulse length should be adjustable from one mm. to one 100 mm.

2. Photon Receiver:-

a. It should be a photon diode capable to develop an electrical current and voltage signal noticeable, from the light pulse, even one mm. by length. Its recorder should store the signal indication by led light on it and also store the signal's current and voltage values, generated by the photon receiver (i.e. photon sensor.) The display of signal values should be provided.

3. Light Pulse Detector:- It should interrupt some portion of the signal but, less than 50% of the cross section of the light beam (signal). As soon as the the light pulse touches it and passes one mm. of its length across the pulse detector (pulse interrupter) this detector should generate a voltage and/or current signal. It should record it and display whenever needed or required.

4. Nicolson Prism:-

It should be very sufficient in size to suit to fit in this experimental set up so as to pass the beam of light. It should be removable from its mounting in the experimental set up. The prism should not attenuate (consume light passing through it. Of course it will polarize it and 50% of the received light by it; it should allow fully.

5. Carr cell:-

As soon as light beam is made ON, the Carr cell also should become ON to allow the light pulse to pass through it. And, after the light pulse just passes through it, the carr cell should be switched off at the receipt of the time set signal on light controller module attached to the light source. The cell ON/OFF times recording and the recording preservation system should be provided independent on the light control system.

6. Operation:-

3. The following operations are required in the set.

i) remove Nicolson Prism.

ii) Make Supply ON. With this main supply ON, all component's supplies are ON.

II) ON the laser beam. And see the photon receivers response in magnitude of V and I. Similarly see the response of the light pulse detector for V and I. OFF the light beam then.

iii) Set all timers to zero sec.

iv) Set time detection only on the light pulse detector for recording the pulse passed instant of time. ON single pulse. Record and reset it.

v) Set the "light pulse detector, to become OFF, as soon as the pulse passes through it; it should become instantly OFF, recording its instant of time and storing it to display when required.. ON single pulse.

vi) Make, ON the single pulse of, either the laser or the normal light. It will pass through the carr cell ; make it FF; the timer provided to with the cell, shall record the instant of that time. The timer attached to the carr cell should send OFF signal the light control system .

vii) **The photon receiver either may receive or may not receive the light pulse.**

If it receive it; it will record its instant of receipt and will store it for display when ever will be required; otherwise not.

Relied upon these above observations respective Results will be drawn. The concept behind the experiment is; the field is not electro-magnetic. Photon of an atom is always associated with that atom only. Photons travel along their photon field only. When the photon field is blocked the photons loose their excitation and become molasses . soon the respective photon field is reestablished; the molasses photon act to indicate the field-source condition.

Conclusion:

1) The set should be as per specifications mentioned strictly. Any variations are not allowed, without the consultation by e-mail and permission as well.

2) All the components should be of utmost precision and operating sharply at set respective instants of time.

3) The electronics' components should be thermally and otherwise also very stable.

For nano second operation set; the distance between source and its last receiver should be consistently be 1.5 meter component to its immediate component; so that the set will spread in 6 meters length plus one meter free space at both ends of the set can be provided by the costumer; thus, total longitudinal length required for the set.

- 4) Considering the length spread required a long one and considering the portability of the set; it should be in pieces of each of its components that all the components can be aligned easily on a plane ground.
- 5) Each component base should be provided with leveling screws four at each corner of each component's base.
- 6) the original components as shown in schematic, should be mounted firm; so that when put on plane ground the light ray path should pass through the components as required by specifications given here.
- 7) Components mounted on their respective bases; should be provided with lockable covers; for safe preservation and transport of the parts.

The science is attached to electromagnetic field as photon field. Though it may be; it should experiment this photon field as per concepts given in this article supported by the science observations. When, it is so, there may be truth hidden and it will be revealed by above expts. The facts mentioned in this article are so perceiving that, they may compel to perform the expts. Above. The author being solo research worker; cannot have the sophisticated instruments for the expts. Hence it is requested to institutes to perform the expts. Naturally, the major credit will be theirs'.

7. My link as dadarao dhone on aca.edu web contains my research papers in light, photon as the most elementary particles, beyond nature etc.

8. References:

[Electromagnetic Radiation - Lambda NASA](https://lambda.gsfc.nasa.gov)

<https://lambda.gsfc.nasa.gov> > POLAR > tutorial > light

Generally speaking, we say that light travels in waves, and all *electromagnetic radiation* travels at the same *speed* which is about $3.0 * 10^8$ meters per second ...

What is a Photon? Foundations of Quantum Field Theory C. G. Torre June 16, 2018
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