

Photon as an intelligent high speed boat

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Abstract

This paper merges the Einstein's, Maxwell's and Beg's views on the nature of photons into a unified concept. It describes the photon as an intelligent high speed boat which travels between cosmological bodies and perform the task of delivering energy.

1. Photon as a high speed boat

The energy mass m contains is described by Einstein as:

$$E = mc^2 \quad (1)$$

The above relationship can be converted to [1]:

$$E = md^2 \quad (2)$$

Where,

d : The distance the particle travel utilizing the energy it contains and which is equal to $3 \cdot 10^8$ meters

Here, this work treats photon as a particle with non-zero mass as the photon is effected by gravity and according to the above relationship this work assumes that the maximum distance photon can travel using its own energy is equal to $9 \cdot 10^{16}$ meters. In reality the distance the photon travels is much more than $9 \cdot 10^{16}$ meters, as the earth receives photons from other galaxies too. This work suggests that photon bends its path toward large cosmological bodies (or rotates around the cosmological bodies) to energize itself by consuming gravitons, thus enabling it to travel long distance.

There are two main concepts about light as illustrated in Figure 1:

- Maxwell and Hertz suggest that there are continuous waves of magnetic and electric field in right direction to the travel of light.
- Einstein avoids any suggestion about how light travels long distances and concentrates only on the moments on the interaction between light and matter. Einstein says that the light is made of collection of energy quanta called photon and the momentum it exerts is in the direction of travel.

This work unifies the two school of thoughts into one based on the observations made and suggests that:

- The photon is like a high speed intelligent boat traveling at c .
- The boat carries fuel to deliver.
- The boat has two oars at right angle to each other.
- The boat uses a part of the fuel it carries as a fuel to push the oars of the boat.
- Once the boat reaches the destination, it delivers the fuel.
- After delivering the fuel, the photon as a non-zero mass particle may confine itself into the matter it has delivered the fuel to.
- The capacity of the fuel tank of the boat is limited and it refills during long travels.

Figure 2 illustrate such a boat with photon like functions. The boat is equipped with Global Positioning System, which allows it travel long distance such as the travel from far away distances to the earth and help it bend itself toward cosmological bodies.

As photon while traveling distance more than d^2 , does not have sufficient energy to continue the travel, it refill itself with gravitons. Thus, photon acts like an energy function, in which energy of one form E_{Input} enters and appears as output in a different form E_{Output} :

$$E_{Output} = F(E_{Input}) \quad (3)$$

Here, F is the energy function.

E_{Output} consists of three parts here:

- Electric field generated at the right angle to the direction of travel of photon.
- Magnetic field generated at the right angle to the direction of travel of photon.
- Momentum that transferred to matter, when photon interacts with particles such as electrons.

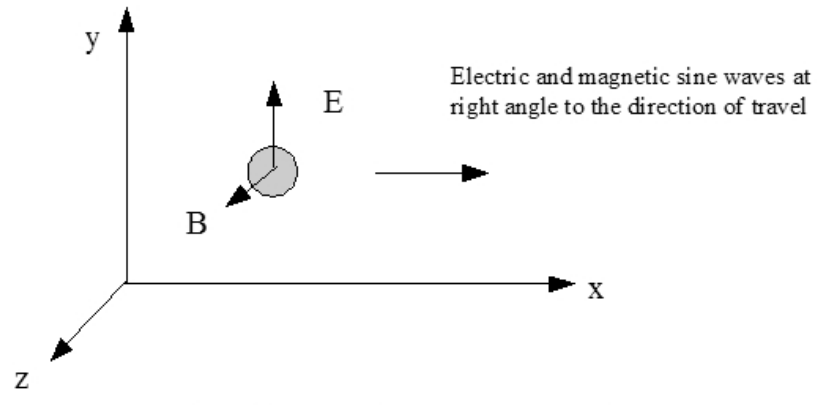
Particle physics says that the field is created by field particles and in the case of long traveling photon, the field particle the photon consume is gravitons which are received after passing by cosmological bodies. Based on this observation, it can be claimed that:

- Magnetic field created along photon's path is formed by gravitons, which change their behavior after passing through the photon.
- Electric field created along photon's path is formed by the gravitons, which change their behavior after passing through the photon.
- Energy is transferred from photon to electron when photon reaches electron orbiting around nucleus. This energy is used by the electron to jump from low energy state to high energy state. Photon carries the gravitons. Transfer of energy from the photon to electron, is actually the process of transfer of gravitons from photon to electron.

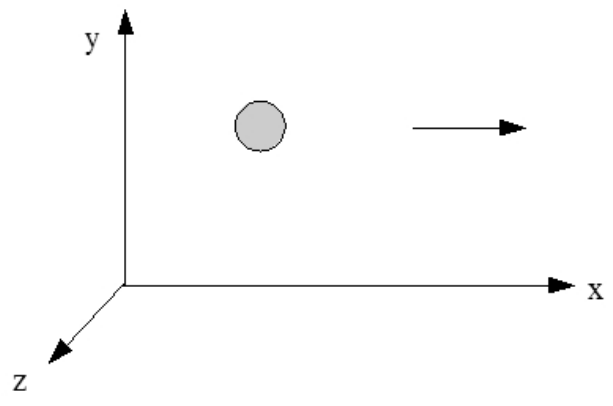
Thus, gravitons can be regarded like one of the important field particle of our universe.

References

[1] A. Beg *Energy relationship between photons and gravitons* 2007. AB Center for Theoretical Sciences <http://abctsau.org>

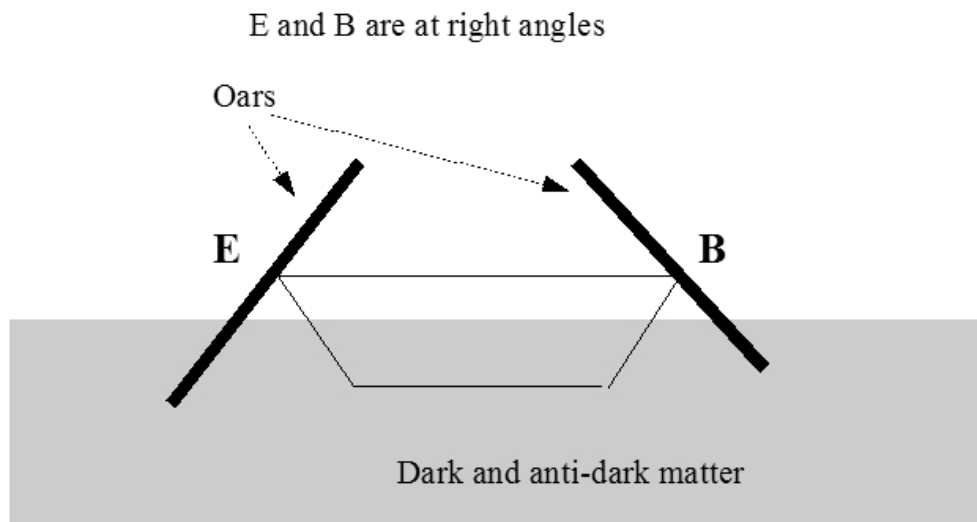


Maxwell and Hertz view of traveling light

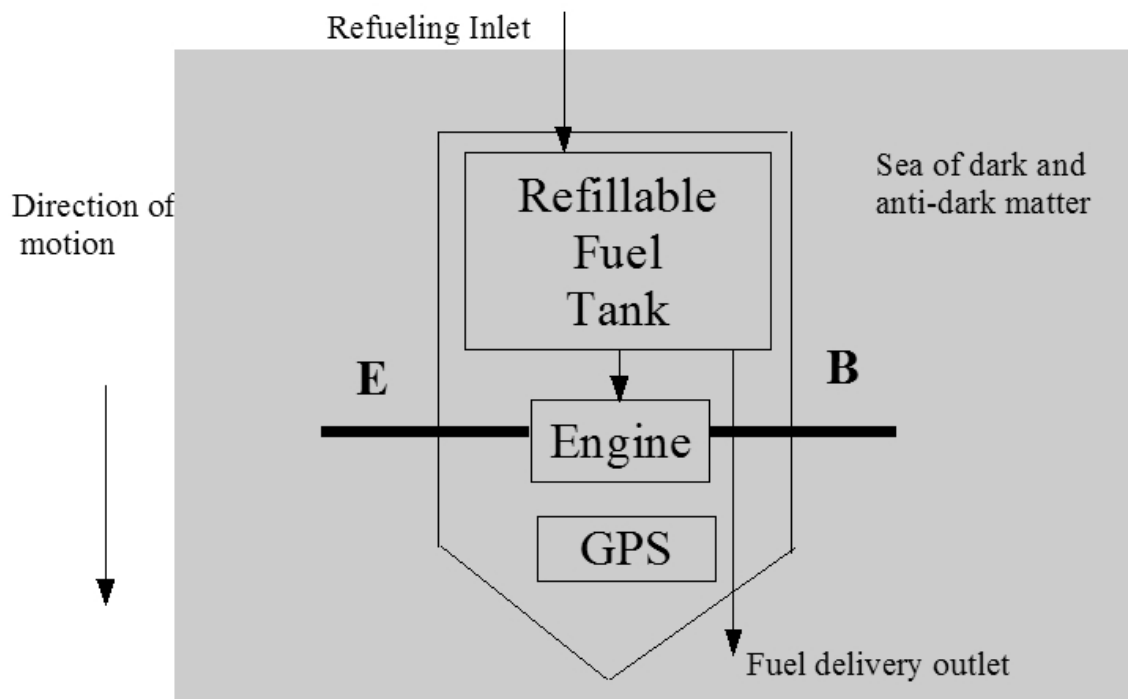


Einstein's view of photon

Figure 1: Traveling light



Boat Front View



Boat Upper View

Figure 2: Boat

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