

Does Light Possess Two Forms: Moving Light and Rest Light (Darkness)?

R Sarva Jagannadha Reddy*

Retired Lecturer, PVKN Govt. Degree College, Sri Venkateswara University, Tirupati, India

***Corresponding author:** R Sarva Jagannadha Reddy, Retired Lecturer, PVKN Govt. Degree College, Sri Venkateswara University, Tirupati, India ; Email: rsjreddy134194@gmail.com

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Introduction

We see light and darkness. In light we see objects. And in darkness we cannot see but, we feel the presence of an object by touch, smell and sound etc. Where there is no light we experience darkness. All the sensory organs of man have only one function to discharge. Except the photoreceptors called Cones and Rods in the retina of eye all other organs are insensitive to light. In darkness the eyes too become insensitive to light like other organs of the body unable to see what is present in darkness. Then what is darkness? Light comes from somewhere. But does darkness come from somewhere? No, It exists simply always on the surface of the Earth. When light comes, it over powers darkness. There is a saying: "All the darkness in the world cannot extinguish the light of a single candle". Then what is light, and what is darkness? The primary source of light is the Sun. The light travels at a speed of 299,792,458 meters per second. The light has a packet of energy called photon. It has no rest mass. The light when it moves, it gains a wavelength and its frequency and from its overall characteristics, it possesses some amount of energy. Albert Einstein has given a famous formula

$$E = mc^2$$

Thus, the light behaves like a wave and also a particle. We call this special and great phenomenon a Wave-Particle Duality of light. When we analyze further deep we may say that light has two forms.

1. A Moving Light (ml)
2. A Rest Light (rl)

While in moving the light possesses 1. Wavelength 2. Frequency 3. Velocity and 4. Energy, ultimately.

We get,

$$\lambda = \frac{c}{\nu}$$

$$\text{Wave length} = \frac{\text{Velocity of light}}{\text{frequency}}$$

That means

$$\text{Frequency} \times \text{Wave length} = \text{Velocity of light}$$

$$\nu \times \lambda = c$$

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The Earth is surrounded by an atmospheric layer. When the light comes from the Sun by its onward journey, it strikes on its travelling path gas molecules of air. This same event takes place in our room and everywhere also.

The moment a light ray meets/ intersects/collides a gas molecule it loses its photon to the gas molecule. Consequently, the light instantly loses one by one in sequence of its other properties:

1. Its wave nature, next,
2. Its frequency, next,
3. Its energy and finally ends in a non-moving light called rest light (rl), from the state of a moving light (ml). This sequence of events of light after the collision with a gas molecule can be explained as

$$v \times \lambda = c$$

Every parameter becomes zero. This newly formed Rest Light is nothing now and transforms into a darkness having a zero velocity rest light. A dark place, when flooded with the Moving Light, becomes, instantly bright.

If this theory of light is true, as an evidence, the physical concept of darkness in the sky beyond atmosphere of Earth does not exist.

In other words, there is darkness on Earth but no where else.

Day-----Night

Light-----Darkness

Moving Light (ml) ----- Rest Light (rl)

The Earth is always (24 hours) surrounded by Rest Light. From the beginning of the sun rise to the beginning of the Sun Set we get Moving Light. 24 Hours Rest Light 12 hours Moving Light.