

## **New Discoveries About the Speed of Photons**

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Considering that the birthplace of a photon is an excited electron that rotates around a nucleus and the excitation of an electron results in the emission of a photon, the photon will have linear motion. So the linear speed of the photon can be calculated. However, a photon has a wave motion due to the rotational movement of electrons around the nucleus which has own speed. The result of combining these two linear and rotational motions is the creation of a helical motion. If we pay attention, a photon has two different speeds. This difference exists both in terms of the appearance of equations and the ones of obtained values. In fact, these two speeds (linear and wave-like) can be considered as shades of the speed in helical motion. Where a new  $C$  is the constant speed on the helical path, which is the resultant of these two perpendicular speeds.

In this paper we are going to calculate this new speed which is greater than speed of light.

