

Loops in Effect of Absorption, in Photoelectric Effect and in the Mössbauer Effect

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ABSTRACT: In purpose to explain what really happens in the process of absorption of light, the principle of the conservation of the loopon has been introduced. One has deduced from it that after the disappearance of the photon in the process of absorption so and in the photoelectric effect, the loop arises. The loop appears in the Mössbauer effect too, where it makes possible the conversion of the kinetic energy of the source into the frequency of the photon.

1. Introduction

It is fascinating what happens really in the process of absorption of light. This work is an attempt at giving answer to this question.

2. Absorption

The loops weaving the space intermediate in the process of absorption of light. Some of them are adjusted to the wavelength of light. The conjugation photon-spacetime woven from the loops exists which next generates the loop.

3. Absorption and the principle of the conservation of the luxon number

In the photoelectric process and in the phenomenon of the absorption the loops are generated. The loops, in purpose not to be a distinguished reference system, must move with the velocity $v=c$.

A loopon must appear with the disappearance of the luxon in purpose to conserve the luxon number. There exists a conjugation: photon - absorbing particle - loop. The photon disappears, the loop is created.

4. Origins of the principle of the conservation of loopon

The generation of the loops in such phenomena like absorption, photoelectric effect and Mössbauer effect arises from the principle of the conservation of luxon.

The principle of the conservation of luxon is followed by the symmetry of addition the velocities in the Special Relativity.

We have:

$$v' = \frac{c-V}{\sqrt{1-\frac{Vv}{c^2}}} \quad (1)$$

So we have, too:

$$\overset{L}{c + v} = c \quad (2)$$

Symbol $\overset{L}{+}$ means the addition in the sense of formula (1) and V means relative velocity of the coordinate system and coordinate system '.

5. Loops in the Mössbauer effect

In the case of the Mössbauer effect the conjugation of the energy of the photon with the kinetic energy of the source is accompanied by the conjugation with machyon and the velocities $v < c$ and $v > c$ appear, although they don't need to be equal the difference or the sum ($c \pm v$) (v is velocity of the source) [1].

Thanks to the conjugation with the loop of unempty vacuum the transfer of kinetic energy from the source to the frequency of photon is possible.

When light enters to the medium in which it moves with the velocities $v = \frac{c}{n}$ the loops are generated.

The light moves alternately with velocity $v > c$ and $v < c$. During these oscillations the loops appear and disappear.

Reference:

[1] R. P. Feynman, "Strange Theory of Light and Matter"