An Opinion on Some Significant Questions of Physics

February 10, 2016.

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Abstract

I give my opinion on the relativity, cosmological redshift, Big Bang, gravity, quantum mechanics and field theory.

Key words: SR, GR, CR, CMBR, BB, gravity, QM, FT.

1. Introduction.

The last year was the 110 anniversary of the special relativity (SR) and the 100 anniversary of the general relativity (GR). Both theories are still in controversy. And the same happens with the cosmological redshift (CR), Big Bang (BB), gravity, quantum mechanics (QM) and field theory (FT). Next, I give my opinion regarding all these significant questions of physics.

2. The SR.

From the assumptions, in inertial systems, of the constancy of the speed of the light in the vacuum and of the invariance of the space-time intervals, three relations never observed are obtained: the length contraction, the time dilation (or time dilatation) and the mass increasing.

None relative speed can contract the length, dilate the time or increase the mass. [1]

3. The GR.

From the assumption that the mass and the energy curve the space, the GR equations were obtained. These do not represent more than the trajectories of the bodies, as it does the Newtonian gravity (NG). The GR gives the NG, which functions because is based on the third law of Kepler. And vice versa, from the NG we obtain the equations of the GR [2].

The space can not be curved, nor the time.

4. The CR.

The CR is produced when the light of cosmic sources (stars, galaxies) scatters the so-called cosmic microwave background radiation (CMBR) [3-5].

5. The BB.

The BB supposes that the CR is produced by Doppler effect due to the expansion of the universe.

But the universe does not expand because the space does not expand. The CMBR is neither the glow nor a relic of the BB. The CMBR is the thermal radiation produced by the bodies of the universe [3-5].

6. The gravity.

The gravity force would be transmitted through a polarization of the vacuum space [6].

7. The QM.

The QM has two versions: the matrix mechanics (MM) and the wave mechanics (WM).

The WM supposes the existence of unobserved waves of matter. The explanation of the wave function in terms of probabilities is also a supposition. The MM might be true. [7, 8]

8. The FT.

The forces of the nature are applied by contact. In the nuclear case: strong and weak, it is direct. In the electric and magnetic cases, the contact is obtained through the vacuum polarization [9], and also in the gravitational case [6]. The vacuum has not any energy [10].

The so-called force fields function in this form, by contact. They do not interchange particles. There are no carriers of the forces.

9. Conclusion.

I conclude that the SR, GR, BB, WM and FT (classical or quantum), would be false. The MM might be true.

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