

On Some Significant Questions of Physics

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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, Fatio-Le Sage idea, QM, FT.

1. Introduction.

This year is 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.

3. The GR.

From the assumptions that the gravity exists and that this curves the space, it was obtained the GR equations. 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 [1].

The gravity force does not exist. The space cannot 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) [2-4, 1].

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 not the glow of the BB. The CMBR is the thermal radiation produced by the bodies of the universe [2-4, 1].

6. The gravity.

The force of gravity does not exist. The bodies are pushed by the CMBR (following the Fatio-Le Sage idea) [5].

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 functions in terms of probabilities is also a supposition. The MM might be true. [6, 7]

8. The FT.

The forces of 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 [8]. The vacuum has not any energy [9].

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, gravity force, WM and FT (classical or quantum), are false. The MM might be true.

References

[1] José Francisco García Juliá, On the Gravity, viXra: 1411.0221 [Relativity and Cosmology].
<http://vixra.org/abs/1411.0221>

- [2] José Francisco García Juliá, A Brief and Elementary Note on Redshift, viXra: 1005.0097 [Astrophysics].
<http://vixra.org/abs/1005.0097>
<http://www.cosmology.info/newsletter/2010.06.pdf> (p. 2)
- [3] José Francisco García Juliá, A Note of Widening on the Redshift Mechanism, viXra: 1006.0055 [Astrophysics].
<http://vixra.org/abs/1006.0055>
- [4] José Francisco García Juliá, Cosmological and Intrinsic Redshifts, viXra: 1011.0043 [Astrophysics].
<http://vixra.org/abs/1011.0043>
<http://www.cosmology.info/newsletter/2010.12.pdf> (p. 3)
- [5] José Francisco García Juliá, Another Explanation of the Gravity, viXra: 1311.0093 [Classical Physics].
<http://vixra.org/abs/1311.0093>
- [6] José Francisco García Juliá, A Criticism to the Quantum Mechanics, viXra: 1308.0001 [Quantum Physics].
<http://vixra.org/abs/1308.0001>
- [7] José Francisco García Juliá, The Position-Momentum Commutator, viXra: 1309.0174 [Quantum Physics].
<http://vixra.org/abs/1309.0174>
- [8] José Francisco García Juliá, On the Electric and Magnetic Forces, viXra: 1409.0116 [Classical Physics].
<http://vixra.org/abs/1409.0116>
- [9] José Francisco García Juliá, A Note on the Energy of the Vacuum, viXra: 1210.0128 [Quantum Physics].
<http://vixra.org/abs/1210.0128>