

Nature Astronomy Journal has been Published Plagiarism of Leonov's Concept of a Quantized Ball-Shaped Universe

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Abstract. In 1996, I developed and published the scientific concept of the quantized ball-shaped universe in Russian [1]. This concept was published a second time in English in 2010-2011 in my fundamental the theory of Superunification [2-4]. The concept of a quantized universe is my development. Our universe is a quantized universe and the universe is filled with quantons. Quanton is a quantum of space-time and it was discovered by me in 1996. Quanton has four integer quark two electric ($\pm e$) and two magnetic ($\pm g$). The calculated diameter of the quanton is 10^{-25} m. The concentration of quantons is the quantum density (is an average $\sim 10^{75}$ q/m³) of the medium (space) and this is a variable function that describes the deformation (Einstein's analogue of curvature) of quantized space-time. A quantized universe can only have the shape of a ball and at the moment it is in a white hole state. Our universe is not flat. It is spherically deformed and the deformation (force) vector is directed to the periphery of the universe forcing the galaxies to run with acceleration. A quantized universe has no expansion and its diameter is a constant parameter. We are observing only the accelerated scattering (recession) of galaxies inside of the quantized deformed universe. This is a new physics; this is a new methodology for calculating the parameters of the universe and its state as at the present moment and for the future.

I was glad when I read the article “**Planck evidence for a closed Universe and a possible crisis for cosmology**” in the “**Nature Astronomy**” [5], which once again confirms the correctness of the theory of Superunification. But I was surprised when I did not see a reference to my theory of Superunification and to the Leonov's concept of a quantized ball-shaped universe. We must make references to publications that were made earlier. This is customary in the scientific community. **The lack of reference to the publication is plagiarism.**

Keywords: universe, Nature Astronomy, quantized ball-shaped universe, theory of Superunification, plagiarism.

To Nature Astronomy: Chief Editor: May Chiao, Senior Editor: Marios Karouzos, Associate Editor: Luca Maltagliati, Senior Editor: Paul Woods.

To authors [5]: Eleonora Di Valentino, Alessandro Melchiorri, Joseph Silk.

Dear Sirs and Colleagues!

I am the author of the fundamental theory of Superunification [1-4]. I believe that every professional scientist working in the field of physics should know that there is the theory of Superunification and he should track all publications in this direction. Otherwise, you fall into a trap called plagiarism and it spoils your scientific reputation. The theory of Superunification includes all fundamental areas of physics and astrophysics, and this theory is almost impossible to get around

from any side. Any of your new fundamental discoveries that you make may already be published in the theory of Superunification.

This incident happened with the article “Planck evidence for a closed Universe and a possible crisis for cosmology” [5] which was published in “Nature Astronomy”. The scientific significance of this work is not in doubt. Moreover, this work is fully consistent with my concept 1996 of a non-flat universe shaped like a ball [1]. This concept of the universe was published in the theory of Superunification 2010 [1-4] and it is presented in a separate article: “Our quantized universe is a spherical white hole in the shape of a ball” [6].

The theory of Superunification [6-17] is a new quantum physics of a determinate plan and it excludes a crisis in cosmology. Now we can calculate the parameters of a deformed (Einstein's curved) universe that is subject to cyclic processes. I personally prefer a quantized cyclic universe without a big bang. Now galaxies under the influence of antigravity are running with acceleration to the periphery of the universe. Then this process will stop and the universe from the state of the white hole will begin to transition into the state of the black hole. In this case, the forces of antigravity will be replaced by the forces of gravitational attraction of galaxies to the center of the universe. And this cyclical process will go on forever. But we can have other scenarios for the development of the universe that will not be as attractive as the concept of an eternal universe.

My scientific priority 1996 is impossible to dispute. I discussed this situation with my lawyer. Copyright violation is a serious misconduct. I demand a public apology from the chief editor May Chiao of Nature Astronomy so as not to bring this case to an international court.

But it will be better for all of us if we find a way of cooperation of our efforts in the development of fundamental science and cosmology. But in any case, my copyright claims will already be published on the Internet.

Best regards,

Vladimir Leonov

November 16, 2019

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