

LDE, another look to inexplicable effect by Igor Grigorov, RK3ZK

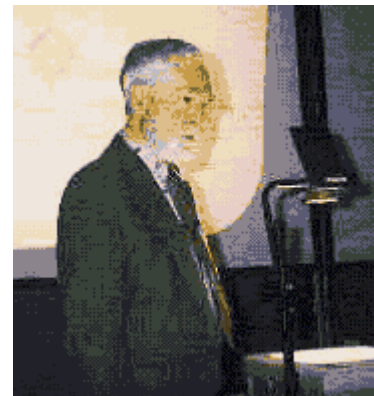


Sometimes we receive strange radio signals delayed compare to sent radio signals. The delaying time may take up to 30 minutes! We do not know yet, where the signals travel in the delaying time. Modern experiments confirm LDE, and scientists keep silence about the inexplicable effect. (More about LDE- just click GOOGLE. Subject LDE)Only supporters of UFO respond to it confidently...

Aliens do LDE! - they say

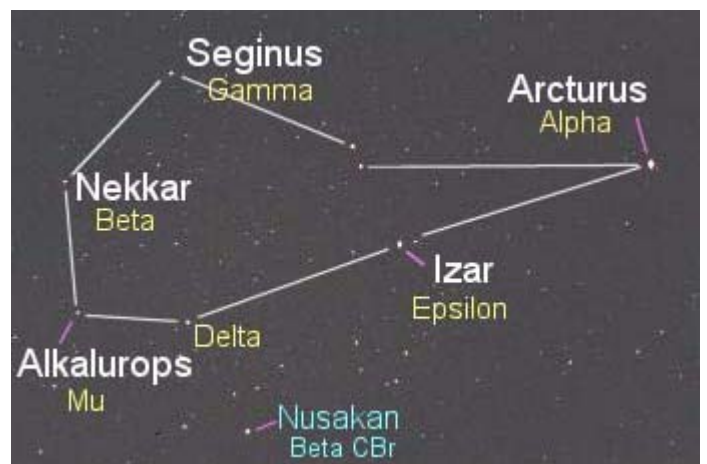
The following hypothesis was put forward and scientifically proved by professor Ronald Bracewell (see his photo) at Stanford University, the USA, and astronomer Duncan Lunan from Scotland [1]. Having put on axes XY the force of the received in 1927 echo of the signal and its time delay, they detected, that the obtained picture reminds the constellation of Bootis visible from the Earth, though with small distortions. (Constellation of Bootis is shown at photo Bootis) They calculated that the shape the constellation is exhibited in the graph, was visible from the Earth 12,000 years back.

Professor Ronald Bracewell



Constellation Bootis

On this graph the aster Epsilon from this constellation Bootis was particularly prominent. These scientists consider that from one of planets of the aster Epsilon (Bootis) 12.000 years ago an interplanetary probe was sent. Having flown up to the Earth and having defined, that on this planet there was a life, it occupied a place in space on elliptic orbit equidistant from the Earth and Moon. Italian - French mathematician Josef Lagrange earlier mathematically justified the possibility of existence of such an orbit [2]. In his name this orbit was called Lagrange orbit, on which the alien space station is supposed to be.



As soon as this alien space station received the first narrow-band radio signals from the Earth, it began to relay them back to the Earth with the coding about the probe. The examination of other known delayed signals allowed the scientists to clarify some other surprising things.

With flow of time the supporters of this theory of LDE origin researched almost all known LDEs. Taking into consideration the time delay and the force of reception of delaying radio signals they attempted to

find some regularity, and from here to find the useful coded information which is kept in the time delay. They attempted to detect this interplanetary probe, using modern means of space observation.

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But meanwhile this version (as well as however some others, less fancy) remains unproved, and it exists only in the circle of the supporters of UFO. By means of space observation devices this probe wasn't detected. (Well, one my friend told me, that a Soviet Far -Space Radio Location Station detected the probe at Lagrange orbit, but I do not find prove for the information...) It is impossible to warrant that the regularity which is in the time delay and the force of LDE signals was also found. Certainly, this version with an interplanetary probe cannot be eliminated from consideration, as it was not confuted.

But nevertheless it is interesting if the aliens could not find any other way of attracting our attention to tell us about themselves, as only by relaying delayed in time and different in force radio signals of the earth radios...

Modern researches confirm LDE

R.J. Vidmar and F.W. Crawford at Stanford University, the USA confirmed the presence LDE, but they conclude that we still do not know which of the known mechanisms are valid for LDE. It is or pointed to presence of any natural phenomena promoting LDE and still unknown to us, or ... or gives scores in hands of supporters of extraterrestrial reason of LDE...

Till now LDE is puzzle

Well, in all times it was characteristic for mankind to ascribe supernatural forces to some phenomena, which were not explained by natural forces. We know, ancient Greek believed that the Gods made rains, lightning, a convulsion of volcano.

Concerning to our time, mankind believe that some puzzle things produced by space intelligence and UFO...



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Aliens do LDE!

May be the probe looks like this one...



Greek god Zeus



Concerning to our time, mankind believe that some puzzle things produced by space intelligence and UFO...

But in due course many of these before mysterious and inexplicable phenomena were explained by quite earthly laws.

I believe, that in the future it will be possible to explain this mysterious phenomenon, and in tutorials on Radio Propagation the phenomenon will be described without any mysticism only using strict formulas. Perhaps in the future today's schoolboys will be able to do it. The main thing is not to be afraid any mysterious and inexplicable phenomena and to investigate them bravely.

References:

1. www.et.presence.ndirect.co.uk
2. www.ufos.about.com/mbody.htm

Einstein Wave or just LDE

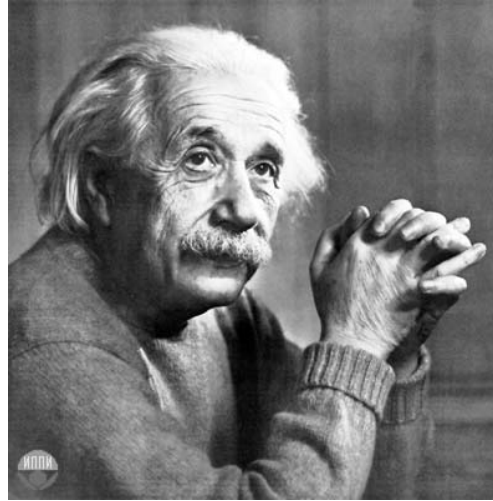
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Talking on an origin and on just existence of LDE go till the recent times. Yes, even just about existence of the LDE. Some scientists persistently do not recognize the existence of LDE and deny obvious authentic facts of reception LDE by many people. I do not know, why these scientists deny the obvious facts, may be because they can not explain this phenomenon. For the scientist if while it is impossible to explain something, if the something is not in frames of the laws existing in the modern science, the something can not exist.

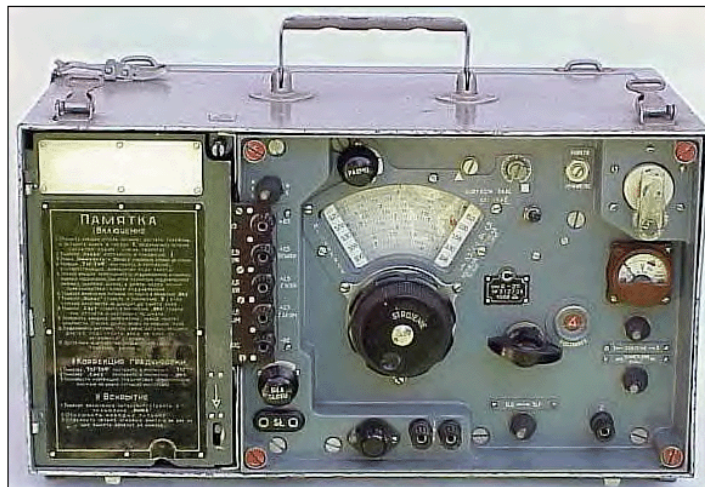
However, lots of people, who do not know that LDE does not exist, have received LDE. After that they ask the scientist to explain the phenomenon, but the scientists tell them: LDE can not be exist...

I want to tell about my first receiving LDE. It was in the spring 1982, when I was studied at Kharkov Institute of Radio and Electronics. When I came in student hostel after my day study, I usually turned on my HF receiver, which was already tuned to BBC station that did broadcasting at 19 meter band. I used an old military receiver R- 311. In one of spring days, when I had switched on the receiver, I heard weak signs of another station on the background of BBC. BBC went to fading after several minutes however unknown weak signs went to strength and while some



Albert Einstein
(1879- 1955)

times they were louder then BBC. To my surprise the unknown station was also BBC but the signs of the unknown station were delayed on several minutes compared the BBC station. It was LDE!



Military USSR's receiver R- 311

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Both BBC and its LDE were fading. Often LDE was considerably loudly than the real BBC. I had received LDE near 5- 10 minutes (I did not see at my watch). LDE was gone so sharply, as if was switched off. Just now I received two signals from BBC and LDE but through a second I received only one BBC. What was an interesting there was no interference whistle between BBC and its LDE.

I asked lecturers of Kharkov Institute of Radio and Electronics about the phenomena however I had met with a wall of silence. I had been told that such phenomenon can not be, because it can not be at all. Later I had known that LDE was a closed theme in the Soviet Union. Certainly, no one lecturer did not take a risk to talk to a student on the closed theme of LDE.

Later I have read that LDE with the large time of a delay (from several minutes and more) usually is discretely, and exist a not long time. For example, LDE with delay more the several minutes exists 5- 10 minutes, then such long delay LDE is disappeared. Again it can be appeared only through some time, for example, 10- 20 minutes. LDE with a small time delay, near 1-3 seconds, can exist long time, may be 20- 30 minutes. After the small time LDE is disappeared it can be appeared again through several minutes.

As we know recently there is not any scientific explanation of the LDE.

I would like to offer mine version of an origin the LDE. The version does not break the laws of modern science. This version is based on the Einstein's Theory of Relativity. Further I try to bound up LDE with the Theory of Relativity.

For my explanation of the origin LDE I am based on the Clock Paradox or Twin Paradox. If you do not know what is it Clock Paradox or Twins Paradox, please, use an internet search engine. Any search engine gives you lots link relative to the phrases.

Here I give a very simplified description of these paradoxes. If an object 2 moves with speed close to speed of light compared to an object 1, time at the object 1 goes faster then the time at the object 2. The clock installed on the object 1 shows hours however the clock installed on the object 2 shows minutes. It is so-called Clock Paradox. If one twin is on object 1 and another twin is on object 2, at their meeting it appears, that the second twin (from object 2) is younger than the twin who is on object 1. It is so-called Twins Paradox. **Fig. 1** illustrates the situation.

Einstein Wave or just LDE



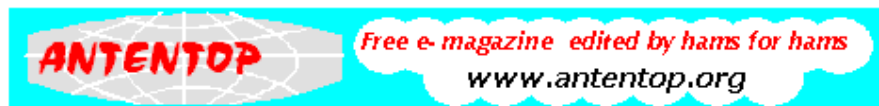
Kharkov Institute of Radio and Electronics



LDE was forbidden in the USSR

A question 1, what is light. Till now scientists argue, is light waves or corpuscles. Experiments are confirmed that light has dual nature. In one experiment the light looks like waves. In another experiment light has corpuscles nature. However, if light, that is electromagnetic radiation, can have dual nature, why radio wave, that also is electromagnetic radiation, can not have such dual nature? Of course it can be!

After question 1, question 2. What will be, if compare an observer, who is on the Earth, corpuscles move with speed close to speed of light. May be for us it sounds strange however clock at the man, observing flight of these corpuscles, counts minutes, while the clock located at these corpuscles counts only seconds. The Paradox of Clock works in this case.



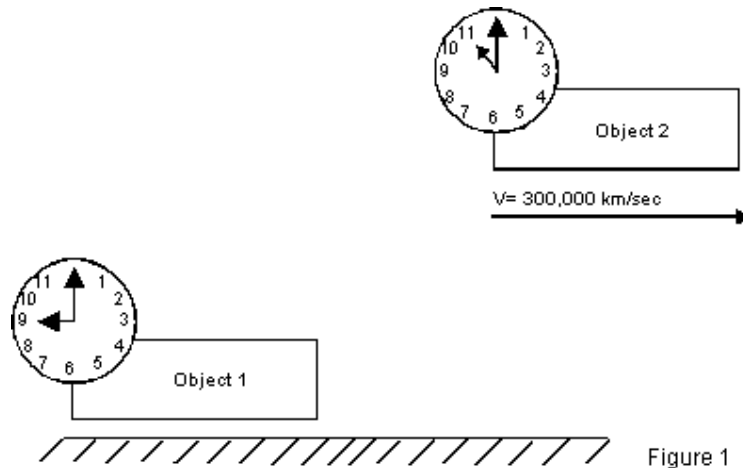


Figure 1

Now we look to the next matter. A radio transmitter works at point A on the Earth. The radio wave from the transmitter comes in point B with a small delay T. Delay T is equal to distance L, which this wave has come, divided on speed of the radio wave (300.000/km/sec), see Fig. 2. Imagine if the radio wave, at presence of some conditions, is propagated also as corpuscles.

Or, radio wave turns in corpuscles, is distributed by corpuscles, which have speed close to speed of light, then the corpuscles again turns in usual radio wave. Let's name this **corpuscle wave** 'Einstein wave'. Let's see to Clock Paradox. Minutes have passed for the observer, who is at point B, but only seconds have passed for Einstein wave.

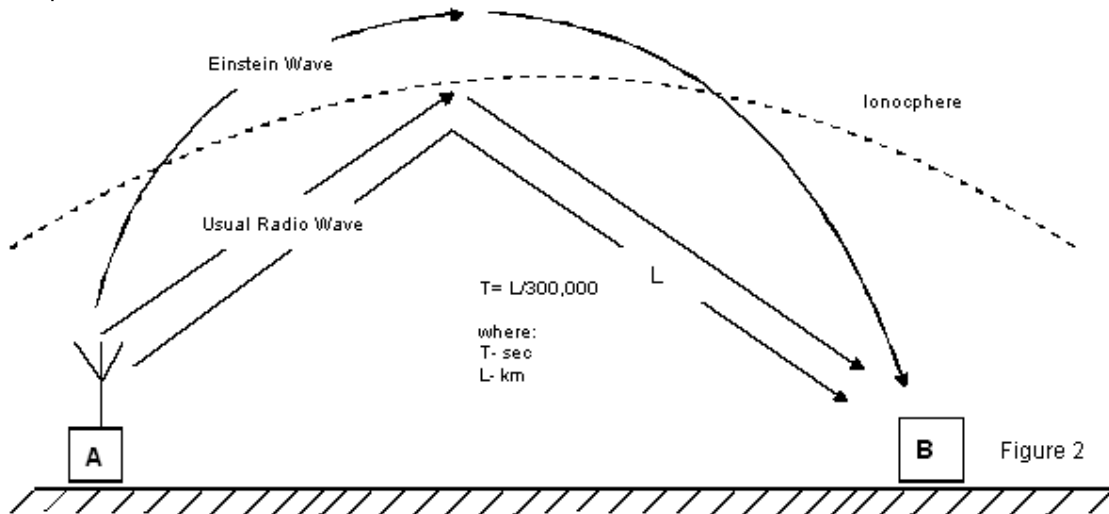
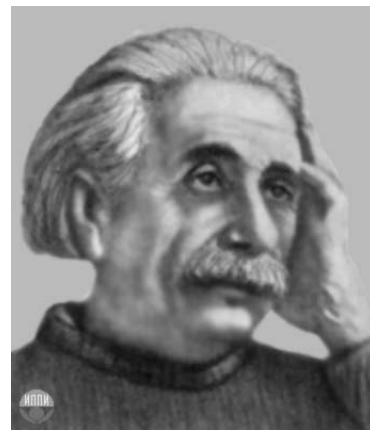


Figure 2

In other words, observer, who is at point B, at first has received an usual radio wave and at second, while some time, has received Einstein wave, that contain the same information that the usual radio wave, that is already received. The delay time can be in millions times more the normal time of propagation of the radio wave.

So, at certain conditions, the observer can receive both a usual radio wave together with its LDE. However, what are the conditions, when radio wave turns to Einstein wave and back to radio wave? It is not known.

Certainly, it only my version LDE, and it is only a version, which does not apply to be true. It is necessary to say, that the Einstein wave sets lots questions. May be more then LDE... **73! I. G.**



Albert Einstein