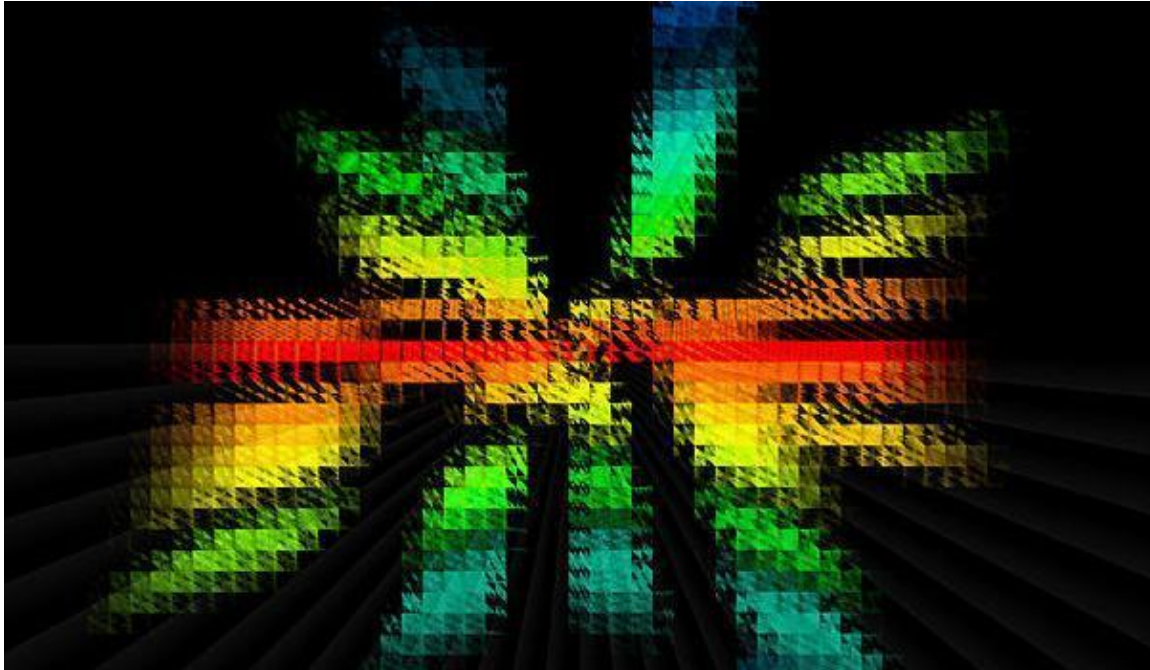


The Holometer



The researchers of the physics laboratory of particles, Fermilab from Batavia, Illinois, are building a “holometer” in order to take a closer look at the material in the composition of spatial-temporal continuum.

Analyzed in detail, this gets a pixilated texture, which motivates some scientists to assume that the Universe could be, in fact, bi-dimensional. Acting on this assumption, in the latest years the researchers ventured on the tracks of the Universe spatial-temporal pulsations but, instead of such gravitational waves, the German-English experiment GEO600 from Hanover, dedicated to such researches, detected a kind of strange noise.

Hearing about the success of the Europeans, Prof. Craig Hogan from Fermilab, who had predicted the noise before its detection in Germany, came with a possible explanations for it. According to the scientist, **the experiment GEO600** would discover a fundamental limit of the spatial-temporal continuum – the point in which the space and the time cease to behave in the harmonious pattern described by Einstein and start to disintegrate into “grains”, the way a photography in a newspaper fragments itself in dots when it is enlarged.

In other words, the signal detected by GEO600 is not an unobserved noise source, but the escapement manages to see the quantum fluctuations in the so-called spatial-temporal material. Therefore, Hogan thinks that the perceived noise is caused by a holographic projection coming from the horizon of our Universe. In order that the theory of the

holographic Universe be valid, the cosmic information must be contained in the farthest limits of the Universe and be projected in **our tridimensional world.**

In order that this hypothesis be proved, the intervention of a gravitational wave detection kit is necessary – the “Holometer”. Being, just now, in the assembling stage at Fermilab, the device will enter deeply this quantum realm at more subtle dimensions than the experiment GEO600 can do. If Hogan’s idea is correct, the Holometer should detect the quantum noise in the spatial-temporal material, completely reversing our classical perception about the Universe.