

# Croatian Association »Albert Einstein«: The Light and Eye Perception, Cosmological Arrow of Time and Space

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The nature of the light is today well understood, especially through quantum theory. Through the long time of life evolution on the Earth, the light developed the sensorial retina. Sensitivity of sensorial retina is in the level of thresholds of several photon quanta only.

Perception of space is determined with physical nature of light and at the same time with physiological perception of eye.

Our Association »Albert Einstein« takes interest about influence of light on eyes and skin, but also about the study of nature of light.

Through the long time of physical and clinical examination, we estimated (B. Vojniković in ophthalmic field and physical optics, M. Šitum in dermatology) that the nature of optics radiation has very serious influence in development of Macular degeneration-AMD, and Skin cancer (Coll Antropol, 31(2007) 29 and 13).

Second interest is a problem of the influence of light nature on our perception of Time and Space. I personally think that the world famous physicist Albert Einstein, my obsession, is take to rigid that is speed of light as the Universe's ultimate speed limit, with consequences on the theory of space and time.

Today it is acceptable for most of the physicists in the world, that cosmic vacuum consist of quantum fluctuation of energy, time and space in the means of  $10_t^{-137}$ , finally. This quantum fluctuation determinates and curvets the cosmic space and time, in correlation with light of low raise to a power.

Consequently to this theory, the most fundamental constants are changeable, dependent of cosmos dilatation / Hubble law and constant too/.

The famous Einstein's Good Equation:

$$R_{\mu\nu} - 1/2 g_{\mu\nu}R - \lambda_{g_{\mu\nu}} = -8\pi G T_{\mu\nu}$$

with significant cosmological constant  $\lambda$  as a unit, similar as the value of  $\alpha$  – constant of fine structure, are the means which describe the cosmos quantum fluctuation, but they are changeable to, in progression and dilatation of cosmos.

$$2 \pi e^2/hc = \alpha = 1/137$$

In conclusion: SPEED OF LIGHT IS SO TIRED AND SLOW, IT IS VISUAL INFORMATION OF HUMAN COSMOS PERCEPTION.