

## A CONVERSATION WITH THE VACUUM

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### Abstract

The creation of the universe is described in a form of conversation.

- The Great Vacuum, please, tell me how did you created the universe?
- You have described it in your papers [1 - 3].
- Yes, but I want to know Your version.
- Well, first I got a feeling that I need to create something.
- So, you have feelings!
- Sort of. Like instability, you know, what I mean.
- OK, what happened next?
- Then, I invented the gravity in the (3+1) dimensional space-time, so the universe will not disperse..
- Why (3+1) dimensional?
- I tried (1+1) and (2+1), it did not work - universes collapsed.
- I understand. Observations show that the universe still has difficulties in local low-dimensional situations.
- Yes. I produced gravitons in (3+1) dimensional space-time. For a while, it worked well. But, still, it was not very stable.
- So, what was next?
- I have invented the quantum entanglement for stability.
- OK. But, gravitational instability still created the hot spots in galaxies.
- Correct. So, I invented your ordinary matter (photons, neutrinos and more heavy particles) to relief energy from the hot spots.
- So, the creation of people is a side effect of Your efforts to make the universe more stable?
- In a sense, yes. But, I have made a special effort to create your subjective experiences - qualia.
- Why You did that?
- To make possible such conversation.
- Thank You very much!
- You welcome!

### References with free access

- [1] Evgeny A. Novikov, "Ultralight gravitons with tiny electric dipole moment are seeping from the vacuum", Modern Physics Letters A, v. 31, No. 15 (2016) 1650092 (5 pages).
- [2] Evgeny A. Novikov, "Quantum modification of general relativity", Electron. J. Theoretical Physics, v. 13, No. 13 (2016) 79-90.

[3] Evgeny A. Novikov, “Emergence of the laws of nature in the developing entangled universe”, Amer. Res. J. Physics, v.4(1),1-9[<https://www.arjonline.org/american-research-journal-of-physics/table-of-content-2018>]