

My crazy theory of Everything

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Abstract

Following basic assumptions have been altered:

1. 4-Dimensional Spacetime to contrary to 3:1
Space-discrete(periodical tangent curve) Time-continues(circle)
2. Gravitation as a fundamental force contrary to elasticity of space integral effect.
3. Mass is absolute entity, contrary to relative entity. Value of proton mass as a unit of the Universe
4. From 3 fundamental constants(G,c,h) only h is real constant. Spin is only eternal gamer in the Universe.

1. About Space/Time.

The main objective of physical theories is to find the number, and, moreover, with sufficient accuracy (R. Feynman). On my first essay <http://www.fqxi.org/community/forum/topic/946> I found a number, rather ratio of two numbers. It was Ratio 3:1 a comprehensive principle of the Universe?

No one was collecting so many different facts (macro & micro world) at first sight have nothing in common. In binary system used only one number 11:1. Only one symbol used for denotation bunch of evidences from cosmos to elementary particles.

I call this broken metasymmetry. I wrote in the essay: "Of course, the additive approach of (3+1) D Space-Time let has resolved many problems of modern physics and was very fruitful. But recognition of splitting approach 3:1 can give a better understanding of Laws of Nature." Surprisingly, the container(space-time), theoretical content(fermions-bosons), casual content (energy-matter) obey the same law 3:1.

Once(Fri 8/1/2008) 1:21 PM) I am asking by mail professor Stephen Weinberg:

"If space is discrete and time is continue, 4-dimensional space-time lost its sense or not?"

Answer was "Yes" (weinberg@physics.utexas.edu)

To my opinion Space is discrete, Time is continue and can help solve Big Bang singularity problem. It seems the cause every new cycle of the Universe are fragments of Big Crunch from previous cycle. But concept of Time little bit tricky and has dual complementary solution: Parmenides and Heraclitus.

I will try to show concrete difference between the 2 approaches:

Suppose two options with the same content:

1. The written book (past, present, future)
2. The audio-recording of the same book. (We live in the listening regime, CD now spinning, rotates)
Written is Parmenides.
Audio-recording is Heraclitus.

At first sight two approaches, Parmenides(book) and Heraclitus(audio-book) in a one picture seems as a schizophrenia. As Niels Bohr said:

"There are trivial truths and the great truths. The opposite of a trivial truth is plainly false. The opposite of a great truth is also true."

The Complementarity is also applicable here as well.

It seems to me Julian Barbour, Carlo Rovelli, etc approach look like Parmenides.

Let's look at the dilemma Parmenides vs Heraclites on the other side, namely, deterministic and probabilistic approach.

I think all is flow in one cycle, but all cycles repeat itch other, despite the violation of second law of thermodynamics. We don't now duration of one cycle and whether it makes sense asked this question.

I would like reminding quote from P.A.M. Dirac: "It seems very likely that sometime in the future there will be an improved quantum mechanics, which will include a return to the causation and which justify the view of Einstein. But such a return to the causality may be possible only at the cost of failure of some other fundamental ideas, which we now accept unconditionally ."

"If we are going to restore causality, we shall have to pay for it and now we can only guess what idea must be sacrificed." (P.A.M. Dirac, Directions in Physics, 1978) Lectures delivered during a visit to Australia and New Zealand, August-September 1975

My concept of time can explain, why some time we must forget about time.

To my opinion i guess what supposed to be Dirac. "Time" is the name of Sacrifice .
Second Sacrifice is the Second Law of Thermodynamics.

Here, the first relates to determinism, the second to the randomness and free will.

As one wise man told "Randomness is lack of our Knowledge."

Advantage of Parmenides is knowledge of whole book.

Advantage of Heraclites is hearing of sounds of audio-book in concrete moment and free will and enjoy it.

Yakir Aharonov's fair view, when he says, "...is somewhat Talmudic: everything you're going to do is already known to God, but you still have the choice."

Just in case. "Everything in the future is a wave, everything in the past is a particle. (Dyson)

Only possible reconciliation between Parmenides and Heraclites is the Cyclic Universe in modern Penrose version of old Heraclitus version. <http://accelconf.web.cern.ch/accelconf/e06/PAPERS/THESPA01.PDF>

To my opinion all is flow in one cycle, but all cycles repeat itch other, despite the violation of second law of thermodynamics. We don't now duration of one cycle and whether it makes sense asked this question. Freeman Dyson writes on p. 221-222 of his 2008 book "The Scientist as Rebel" that the Heisenberg-Bohr based "entanglement" of the wavefunctions stems from the dualistic interpretation which "Says that the classical world is a world of facts while the quantum world is a world of probabilities. Quantum mechanics predicts what is likely to happen while classical mechanics records what did happen. This division of the world was invented by Niels Bohr, the great contemporary of Einstein who presided over the birth of quantum mechanics. Lawrence Bragg, another great contemporary, expressed Bohr's idea more simply: 'Everything in the future is a wave, everything in the past is a particle'. Dyson continued his rebel way:

"I like Bohr's division, because it allows the possibility that gravitons may not exist. If the scope of quantum theory is limited, gravity may legitimately be excluded from it"

“I feel the same way about gravitons” Freeman Dyson “The scientist as rebel,” Random House Inc.p222

Every Universe is the cause of the next Universe. Time is the circle.

As far as I'm sure that Time is a circle, I suspect that the Space obeys to tangent periodical curve. No dimensions. Only angles.

Professor R. Penrose new theory about Cyclic Universe.

<http://accelconf.web.cern.ch/accelconf/e06/PAPERS/THESPA01.PDF>

Does Cyclic Universe mean Eternal return? Eternal return mean immortality. If

Cyclic Universe can get scientific confirmation, it bring to cease-fire and armistice between Science and Religion.

If Cyclic Universe exist, you are born with every cycle, every time and lives your period of Life.

Between cycles you are exist as a Platonic idea, or as a soul, as a spirit.

Then in the some period of cycle you are born and exists as soul and body together, then after your death you are exist again as a soul.

Problem is proof that Time is a Circle?

2. About Gravitation and mass.

One of my favorite books in physics Хидеки Юкава “Лекции по Физике.”

"Lectures on Physics", Hideki Yukawa, translated to Russian from Japanese. Always attract the attention of the original point of view on the discussed solutions and unsolved problems. Thoughts on physics Yukawa described so vividly, that makes the readers be thinker. And there are plenty of opportunities for reflection.

I can't find out translation in English and therefore I will try to do it myself.

Yukawa cites the opinion of the Ernst Mach on Newton's Second law:

"In the XIX century. German and Austrian physicists, especially Mach and Boltzmann, very fond of philosophy.

Max engaged in reconstruction of Newtonian mechanics is not in the sense of creating another new theory, but in the sense of a different interpretation of the old. In particular, he said that he introduced the concept of irrational forces: the force, according to Mach, is not an independent physical quantity, it is simply the product of mass and acceleration. In other words, he believed that Newton's equation of motion $F = ma$ - no more than the definition of the left side through the right side.

The acceleration can be accurately measured by observing the motion of bodies. But the question of what weight, you can not give a specific answer, saying that the mass by its nature is inherent in matter. A force, thought Max, are obtained by multiplying the acceleration by the mass.

Max wanted to get rid of the concept of mass. He was not satisfied that the observation of the collision of two bodies can determine only the ratio of their masses."

I am also supporter of opinion that gravity is not a fundamental force. It seems to me that Sakharov's view about elasticity of space close to truth.

See detail in my article "What Wolfgang Pauli Did Mean?"

<http://vixra.org/abs/0907.0022>

Once, when I read a book "Concepts of Particle Physics vol.1", Kurt Gottfried and Victor Weisskopf

http://www.amazon.co..._rdr_bb_product, p.167 I found interesting quote concerning problem of Gravity."Gravity is a collective effect of Bose and Fermi fields." I send e-mail 06.16 .98 i to Kurt Gootfried for asking who are supporters this approach. Dr.Gotfried answer:"What we were alluding to at time was an idea of Sakharov which has, at least thus far, not born fruit." Nevertheless, after many years of interest to this idea still alive. See Matt Visser "Sakharov's induced gravity: a modern perspective"

<http://arxiv.org/abs/gr-qc/0204062>

3. About fundamental constants:

In discussion "Dialogue on the number of fundamental constants" L. B. Okun, G. Veneziano and M. J. Duff, concerning the number of fundamental dimensionful constants in physics

<http://arxiv.org/abs/physics/0110060>. They advocated correspondingly 3, 2 and 0 fundamental constants. Why they not considering case, where only constant is Planck-Dirac's constant; $h/2\pi=1,054 \times 10^{-27} \text{erg}\cdot\text{sec}$?

To my opinion it will be convincingly, because C doesn't contain mass dimension for triumvir(L,T,M) and G doesn't contain T for the same triumvir.

My be $h/2\pi$ only dimensionful constant of Nature? Some hint gives Planck mass $M_p=(hc/G)^{1/2}$. We simultaneously can decrease or increase c and G, but M_p remains unchanged.

As a consequence -only $M_p/M_e=1836$ is true dimensionless constant?

Very beautiful symmetric number because $1+8=3+6=9$

In the binary code 1001

"For practical use Planck length, time and energy are obviously irrelevant."

I am sure Planck mass (energy) eternal relevant.

I am not sure about Planck length and Planck time.

I will try why:

I think that the speed of light and speed of gravity the same, independently they are luminal or superluminal.

In the Planck length G/c^3 no linear link.

In the Planck time G/c^5 no linear link.

Conclusion. The Universe has:

Fermions 12(6 quarks+3 leptons+3 neutrino).

Bosons 12(8 gluons+3 vector(2W+1Z))+1photon).

Numerical supersymmetry not broken.

From other side the Universe has:

Fermions 3(proton,electron,neutrino),neutron non-stable

Boson only 1 photon.

See my essay <http://www.fqxi.org/community/forum/topic/946>

Metasymmetry is broken

Freeman Dyson told about unsolved problems in physics(The Future of Physics, Phys. Today 23 (9) (1970)

"To my mind there are only two things that would really would be disastrous for the future of physics. One is if would solve all of the major unsolved problems. That would be indeed be a disaster, but I am not afraid of it happening in the foreseeable future.

The other disastrous thing would be if we become so pure and isolated from the practical problem of life that none of brightest and most dedicated students wants any longer to study physics"

I would really like to get my readers who work in the field of fundamental physics problem would not remain unemployed.

