

The Whole and Parts

Abstract: This article is an attempt to make a philosophical foundation for my viXra articles, through the statements of other viXra authors from the section "History and Philosophy of Physics".

Introduction

In my article [1] I stated: *All I would say has already been told countless times, therefore, I will only mention crucial opinions and scientists that have inspired me.*

I would like to quote the viXra authors who are in accordance with my results and views. I would not be truthful if I said that I started from the same premise and obtained my results, because it is actually the opposite. In the process of connecting the whole and its parts, rationally, with common sense and some previous knowledge, I obtained results which proved to be in accordance with those premises. Moreover, subsequently I noticed that my results could be linked with Boscovich's force curve [2], which I applied in the several articles of mine.

What is important here are just the views of the viXra authors and not their possible calculations and results, which could differ from mine. Moreover, here are not important views related to magnetism, life, consciousness, God and other phenomena which I have not dealt with.

In this first part I will analyze just the connection of my articles with the statements of Peter Kohut, because our views have the most in common. All Peter Kohut's quotes I wrote in italic, while my quotes from my previous articles are in bold italic.

I would also like to note that my views are, besides being similar to Boscovich's, similar to Hegel's and Engels' understanding of attraction and repulsion [3]. Here I will not elaborate on this, because the topic of this article are just the viXra authors.

Peter Kohut

Let's start with [4] where Peter Kohut says:
Everything is connected to everything else.

Which is in accordance with my [5]:

Parts are dependent on the whole (Universe) and are also an integral part of the whole, therefore, the whole is also dependent on the parts!

Or in the conclusion of article [6]:

All the formulas shown are simple and derived from a logical starting point that a whole and parts are immanently dependent on each other. They are also showing that the quantum character of phenomena is connected to the relations between the whole and parts.

All the above statements can probably fall under one of the interpretations of Mach's principle [7].

The above was implemented through the introduction of mathematical Cycle [8]:

$$cy=e^{2\pi} = 535.4916555248 \quad (1)$$

which connects the parameters expressed through length, mass and time. I have obtained numerous formulas linking physical quantities, out of which I would single out:

$$\gamma = \sqrt{2^{\left[\frac{e^{2\pi}}{1+1/(\mu/\alpha'+1)} - 1 + 3 \log_2(2\pi) \right] / \left[(1+\alpha'^2 \log_2(\mu)) \right]}} = 1.00137841920390(92) \quad (2)$$

In [9], I obtained the mass ratio of neutron and proton γ , where proton-to-electron mass ratio is $\mu=1836.152\ 672\ 45$ (75) and inverse fine-structure constant is $\alpha=137.035\ 999\ 074$ (44) [10].

Peter Kohut about contemporary theoretical physics:

There are many reasons why contemporary theoretical physics experiences a very deep crisis. Missing critical thinking and logical reasoning is replaced by production of speculative and false assumptions with consequent complicated formal mathematical games having nothing in common with physical reality. Contemporary mainstream theoretical physics is the greatest producer of mysteries ever. Its crisis reflects a deep social and moral crisis of western society which is under the enormous pressure of lying propaganda trying to destroy last remnants of democracy and degrade human beings to the level of unthinking and submissive herd and so strengthen the supremacy of power financial oligarchy. The LIE and consequent dogmatism and mindlessness in all spheres of our life is the most effective instrument of domination. Theoretical physics just reflects this situation. Professional career of theoretical physicists depends on acceptance of mendacious theoretical dogmas. Thousands of theorists are involved in scientific research having no relation to reality. They create their theories and models on the base of accepted dogmas. By the rules of formal logic and sophisticated mathematical techniques they produce their mysterious virtual realities. It is much easier to accept uncritically the naïve and illogical dogmas and assumptions than think deeply, creatively, correctly and logically.

As I said in [11]:

The concept of unity of the whole and parts rejects the use of terms coincidence, paradox, mysterious and strange.

Peter Kohut expressed optimism that I share:

Can we know the TRUTH and the nature of our Universe? Yes, we can and I am going to detect it. Already G.W.F. Hegel showed in his rational philosophy that there are no hidden secrets or realities inaccessible by our critical rational thinking. His philosophy was optimistic and his dialectical logic - very effective and promising instrument. Hegel disclosed brilliantly that the world is rational and dialectical and therefore accessible by our rational thinking and dialectical logic. It is impossible not to come to the knowledge of truth if we apply strong critical thinking and logical reasoning as well as contemporary level of knowledge following from successful quantum mechanics which shows a quantum character and mutual interconnectedness of reality. Although all indications exist already for a long time, theoretical physicists have not found the

exact mechanism how mater, energy, space and time are quantized and structured at the basic quantum level. Why are they incapable to use a rigorous logic to find correct answers?

Kohut's example below shows the reigning misconception in whose trap, I agree, we should not fall.

String theorists even try to persuade us that despite their long-term fruitless research they produce very interesting mathematical effects and so represent the only promising way to the unified TOE (theory of everything), declaring their exceptional position in science as "the only game in town". Yes, they are really right, because their "research" is only a game and nothing more and their TOE is becoming the TON (theory of nothing). Their situation is desperate, but they will never be able to face the consequences of their folly. String theories are becoming a strong warning and model for future generations how not to do science. It would be much better to have no game in town than that one which is the greatest scientific cognitional catastrophe. It is hard to believe that so many physicists are dealing with it. Contemporary irrationalism and madness of theoretical physics represents a top caricature of science and exhibits a very deep decadence of human thinking. A great boom of string and other nonsensical theories is the evidence that the basic aim of contemporary theoretical physics is to produce a LIE of the highest order. Its wild weed suffocated the way to the truth ultimately. The TRUTH is simple, beautiful and comprehensible. Only LIE is very complicated and incomprehensible like contemporary physical theories. LIE and EVIL are two sides of the same coin. Hence LIE represents a great danger as it is a source from which EVIL takes its power.

The simple truth I showed in relations like this:

$$\mathbf{m}_i = \mathbf{m}_q \mathbf{N}^{1/i} \quad (3)$$

where m_q is quantum of mass, m_i are significant masses and N is a large non-dimensional number, see [6].

Peter Kohut has an excellent approach to Einstein's work, separating Einstein's misconceptions from his real contributions, for example:

Einstein's fatal failure by derivation of the famous formula $E = mc^2$, well known already before him, is analysed in detail in my paper [12]. This formula is classical but not relativistic, resulting directly from Maxwell's theory of electromagnetism.

Peter Kohut about the Standard Model

The Standard Model of particle physics, mainly its QCD theory, is also a successful producer of virtual mysteries. It is the ugliest theory or model ever proposed with its absent and undetectable hidden virtual realities: 36 quarks and anti-quarks, 19 or more free parameters, 3 generations of redundant particles, bunches of gluons, Yang-Mills particles, W, Z and Higgs bosons, etc. One must be crazy to try to find a rational and logical sense within this heap of nonsenses. Funny and embarrassing was the last mob scramble for the chimera of Higgs boson within LHC (Large Hadron Collider), rewarded even by the Nobel Prize. Of course, the billions of euros of public money being spent for world's most expensive experiment had to be justified. Will this mobmadness continue by search for the SUSY (super-symmetry) partners of known particles at

energies until 14 TeV (trillion electron-volts)? It seems yes, because we need to confirm our mendacious mysteries and follies irrespectively of what it costs. "Detection" of the Higgs boson is presented as the greatest scientific result of the last period although it says nothing about the essence of reality. Physicists are even incapable to explain what the Higgs field is like. What is the relation between point-like Higgs boson and its field? Is this field continuous or quantized, structured? If Higgs field exists through whole space, how is it related to space (vacuum) and other fields - electromagnetic, strong and gravitational? How are these different fields interconnected and how do they interact mutually? If all elementary particles are point-like, why do they differ by their mass and other properties (spin, charge)? What does give them their different qualities, what is the reason of their difference? Why do they take different masses from Higgs? Why photons do not take mass from Higgs? Physicists do not know the essence and source of energy and matter, but they need Higgs! Why? They declare their ugly Standard Model is completed, but are we closer to the true knowledge about our existence? No! The more scientific results contemporary theoretical physics produces the 6 more distant we are from the truth and the greater is the lie. The Higgs boson of particle physics as well as dark nergy and black holes of cosmology are other great leaps to the territory of LIE where string theories already dominate. Latest Brian Green's book "The Hidden Reality" is an unplanned and unwanted indictment of contemporary postmodern science showing exactly why string theories represent a pinnacle of utter scientific nonsenses and follies. They elevate infinite human stupidity to high scientific levels. We can make mistakes, but it is hard to believe that thousands of physicists are dealing with such nonsenses.

I cannot comment on the above, since my general education does not cover the Standard Model, actually, I do not even mind not having studied it.

About the Mysteries

Peter Kohut's list of some false mysteries of contemporary theoretical physics:

Mysteries of the Standard Model of particle physics:

- virtual photon as mediator of electromagnetic interaction in QED (quantum electro-dynamics)
- virtual quarks and gluons and their asymptotic freedom in QCD, quark-gluon plasma
- virtual bosons W^+ , W^- , Z in the theory of electroweak interaction
- Higgs boson and Higgs field

Mysteries of String Theories:

- one dimensional vibrating and oscillating open or closed strings
- eleven dimensional space-time with extra spatial dimensions hidden under the Planck scale and compactified into the shape of Calabi-Yau manifolds
- graviton as a mediator of gravitational interaction
- various dimensional D-branes and p-branes
- prediction of at least 10^{500} universes roughly similar to ours - SUSY (super-symmetry) partners of known particles

Mysteries of cosmology:

- black holes with their singularities and imaginary time
- dark matter

- dark energy as a source of seeming acceleration of cosmic expansion
- gravitational waves
- multiverse, baby universes, bubble universes, our copies in parallel universes,
- wormholes

Here I could list all my articles, since none of them are about these mystical theories, as I have intuitively believed that they are a waste of time. It is by chance that R.J. Boscovich [2] did not mention the above-stated mysteries, but he did include, for example, orbits around the nucleus, which have been recognized as Rutherford–Bohr model since 1913.

Paradoxes, as consequences of misunderstanding of phenomena, simply have no place in any good theory.

However, I believe that Peter Kohut does not apply Occam's razor enough, he said:

God as "I am" is the highest, richest but simplest form of existence. So it represents the starting point of the whole being and the eternal process of self-consciousness. "I am" contains everything in its total unity. It needs no other explanation as it is evident for everyone and given in his "self-consciousness". It is the starting point and the goal of the whole evolution in Nature. It is the apex of unity of being and the clearest manifestation of Occam's razor, by explanation of the true nature of existence.

My theory does not need this approach, just as it does not need some others either, like for example the Big Bang theory, the Hubble constant, God, and Cosmic Expansion. Instead of these and some other I am using mathematical constants (unchanging and clean), thus applying Occam's razor even more. This does not mean that I am free of misconceptions without which Occam's razor would be present to an even greater extent. **Occam's razor** http://en.wikipedia.org/wiki/Occam%27s_razor states that the amount of assumptions should be as small as possible, which I often apply.

Peter Kohut also says:

Their realities are hidden within Planck's scales. If they knew that Planck's scales just indicate that the whole reality is quantized and structured and therefore consists of elementary quanta they would understand there is no way to hide some thing there. The question is: what are the basic elementary quanta of reality? How is the reality built of these elementary structural constituents?

The above-mentioned views I expressed through formulas in my articles, especially in [14].

In my case, Planck's units were the source of solving the relationship between the whole and its parts, hence in [8] I used the following formula which is true for the Planck mass, length and time.

$$m_{pl}/M_u \equiv l_{pl}/R_u = t_{pl}/T_u \equiv 2^{-cy/4-p/4} * (2\pi)^{-3/4} = 1.2512639E - 61 \quad (4)$$

In my later works I performed the mentioned quantization, for example in [6, formula 5]. The Planck values are not mysterious; they are an integral part of the relation between the **whole and its parts**.

Peter Kohut claims:

The Universe is rational and knowable.

All particles and interactions are space-creating and space-carrying quantum connections. Particles and physical objects do not move “in” a free space-like vacuum, but thanks to their external direct connections, they move “towards” all other parts of the Universe. We do not need any background to allow particles to move. All particles and interactions, as well as the vacuum are created of elementary bipolar quantum connections. As everything is connected to everything else, so every part moves towards all others thanks to their mutual connections. The vacuum consists of elementary quantum connections between particles and physical objects. All interpretational problems of quantum physics follow from its attempt to describe the motions of point-like elementary particles “in” space represented by a coordinate system. Nothing exists in space as everything creates space

! Nothing moves in space as every part moves towards all others thanks to their mutual quantum connections!

Particle is not a point-like entity and cannot move in free space represented by a mathematical coordinate system. Every elementary particle carries a certain quantum of space and moves only in relation to all other parts of the Universe. Any particle can be studied only in its relation to other objects, but not to a coordinate system. Heisenberg’s uncertainty principle is a consequence of incorrect question - how to define a position of moving particle in space represented by a coordinate system. Actually, elementary particles consist of elementary quantum dipoles as holders and carriers of elementary quanta of space, whose energies are inversely proportional to their lengths. They do not move in space but in relation to all other elementary quantum dipoles thanks to their mutual quantum connections. There is no uncertainty regarding elementary particles, as they have the exact internal structure, motional state and relations to all other entities of the universe at every moment. Heisenberg’s uncertainty principle results from inability of physicists to ask Nature correctly, how it works.

I could not express the above as well as Kohut. I would just mention that in [8] I featured similar views of Milutin Milanković, and here is my quote from the article about dimensions:

Thinking about the relations governing the Universe, not for a moment did I think of dimensions.

I obtained my more precise results regarding gravitation in [15, formulas 7-9] and [16, formula 2], by respecting this view from the above quote (*Any particle can be studied only in its relation to other objects, but not to a coordinate system.*)

Peter Kohut demystifies the Planck time:

Time is quantized and can be numbered and expressed by integers. It is nonsense to say that something can be hidden under the Planck time. Nothing can be hidden under the Plank scale neither in the sense of time, nor volume, because the Universe is quantized in both its characteristics – space and time. Both they have clear physical meaning. The question, what had happened from the moment of the Big Bang until Planck’s time, has no sense. There is no mystery as the Universe did not start its expansion from its undifferentiated singularity but just from its initial state as a sole quantum dipole (+/-). The Universe has the source of its motion (energy) in mutual attraction and repulsion of its opposites. Contemporary cosmological theories do not see

the dialectical essence of existence, so they cannot explain the origin of cosmic expansion – Big Bang, and the way out of singularity. Singularity as undifferentiated totality is nothing. Anything cannot appear from nothing. Singularity does not have its own source for plurality generation. It is only “one” and nothing more. Quantum cosmological theories suggest the fluctuation of a previous vacuum as a source of cosmic expansion and mention some fluctuation of energy density.

The Universe has the source of its motion (energy) in mutual attraction and repulsion of its opposites.

The above is absolutely applied in my work. In my opinion, the key sentence from the above quote is: *The Universe has the source of its motion (energy) in mutual attraction and repulsion of its opposites.* It would be immodest of me to compare my work with the work of R.J.Boscovich, but I think that the above statement is the core of both Boscovich’s and my work.

Peter Kohut believes that there are only two forces that have a single origin.

Theorists do not see that all interactions are only different forms of attraction and repulsion. There are only two forces – attractive and repulsive being in a mutual dynamic equilibrium, although they can manifest by various ways. Why do theorists create their speculations on the idea of symmetry breaking, resulting into quite different fields and bosons with unknown nature although all known forces or interactions like electromagnetic, nuclear, weak, strong and gravitational differ only by intensity of attraction and repulsion. Of course, all these interactions exist at different energetic levels, but it does not mean the different fields. There is only one field made of elementary non-local quantum connections that can differ by their intensity or energy contents. The equilibrium of repulsive and attractive forces is a fundamental feature of reality even at the level of elementary quantum dipole. The symmetry between attractive and repulsive forces is the basic symmetry manifested everywhere, at all levels of reality. This symmetry (equilibrium) cannot be broken but can be manifested at various forms.

I would say that the quote has a single deficiency, and that is the failure to mention the work of Roger Boscovich, who thoroughly elaborated the above matter in [2].

Assessment of the state

Contemporary theoretical physics represents the biggest scientific failure ever. It is much worse than any pseudoscience, as it pretends to be the exclusive producer of scientific as well as philosophical truth. Arrogance of mainstream physicists has achieved its apex by declaration that philosophy is already dead and now only theoretical physicists are able to deal with basic ontological questions of existence. Having no answers they try to persuade us that the reality is mysterious and we must accept all mysteries they produce. They would like to believe they are right, but have no certainty, what is falsely presented as their modesty, but on the other hand no criticism is accepted from outside and their arrogant domination is manifested by strong mass media support. They hold strong institutional positions in scientific institutions and universities in western countries, mainly in the USA, so it is impossible to wait they will be able to accept the truth, even if it is crystal clear. They hold a total control over science education, professional journals, funding, jobs and social status. Why should they give up all this for a quite unimportant thing like the TRUTH? They try to persuade us that the problems they are dealing with are very

complicated and need great mathematical skills, that lay public cannot even imagine and should be thankful for their condescending attempts to popularise some of their breakthrough ideas, although it would be much better, if they were silent not showing their thinking impotence.

I believe this to be quite a pessimistic assessment of the state. The exit is in freedom and we who publish **non-mainstream** articles here on viXra use that freedom. I think that the mentioned mysteries will one by one find their well-deserved place among now historical mysteries such as witches, werewolves, edge of the Flat Earth, etc. who now serve to entertain readers and scare children, while previously they had been seriously considered.

Conclusion

- I believe that I have shown that a large number of Peter Kohut's statements are in accordance with concrete results in my works.
- My quote from one of my early articles on viXra is therefore true: ***All I would say has already been told countless times*** and all my attempts at philosophy would thus be a repetition of what had already been stated.
- It is much more productive that everyone does what suits them, and in my case it is the search for rational, mathematically expressed relations ruling the nature.
- There is a relatively simple way to overcome the above pessimistic viewpoint. Scientists should just use the genuine sources of knowledge such as the greatest scientists: Hegel, Newton, Planck, Einstein, etc. and should not succumb to modern mainstream beliefs in science.
- It is especially important and useful to thoroughly examine the work of R.J. Boscovich, since he had anticipated some later discoveries, while some of his contributions are still waiting for a scientist who will show the connection between the contemporary knowledge and Boscovich's statements and calculations. This especially refers to young scientists.

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References:

- [1] Branko Zivlak - Calculate Universe 1, <http://viXra.org/abs/1303.0209>
- [2] Boscovich J. R.: (a) "Theoria philosophia naturalis redacta ad unicam legem virium in natura existentium", first (Wien, 1758) and second (Venetiis, 1763) edition in Latin language; (b) "A Theory of Natural Philosophy", in English, The M.I.T. Press, Massachusetts Institute of Technology, Cambridge, Massachusetts and London, England, first edition 1922, second edition 1966.
- [3] Stoiljković D., "Filozofske osnove Boškovićeovog shvatanja", Gradac broj 180-181, Godina 38, 2011
- [4] [Peter Kohut](#) CRISIS OF CONTEMPORARY THEORETICAL PHYSICS AND THE TRUTH In the Mirror of Dialectical Logic (The Unity Principle) Peter Kohut, [viXra:1401.0103](#)
- [5] Branko Zivlak, "Dozen Coincidences?! One Rule", <http://viXra.org/abs/1312.0081>
- [6] [Branko Zivlak](#), [Dragoslav Stoiljkovich](#), Relations Between Significant Masses in the Micro and Macro World Based on the Boscovich's Theory, [viXra:1403.0069](#)
- [7] http://en.wikipedia.org/wiki/Mach%27s_principle
- [8] Branko Zivlak, Bit, Cycle, Dimensionless, It <http://vixra.org/abs/1311.0008>
- [9] Branko Zivlak, Neutron, Proton and Electron Mass Ratios, [viXra:1211.0090](#)
- [10] CODATA internationally recommended values of the Fundamental Physical Constants, (2010) values of the constants, <http://physics.nist.gov/cuu/Constants/>
- [11] Branko Zivlak, "Fundamental particle", <http://viXra.org/abs/1312.0141>
- [12] Peter Kohut, $E=mc^2$ and Einsteins failure <http://vixra.org/pdf/1203.0014v1.pdf>
- [13] http://en.wikipedia.org/wiki/Bohr_model
- [14] Branko Zivlak, Calculate Universe 3 – Planck Units, [viXra:1305.0145](#)
- [15] Branko Zivlak, Universal Gravitational Constant Via Proton, <http://viXra.org/abs/1310.0018>
- [16] Branko Zivlak, Universal Gravitational Constant Via Rydberg Constant, <http://viXra.org/abs/1311.0081>