

# Brain-Controlled Cold Plasma

D. Chakalov  
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Regarding 'macroscopic effects', p. 31 in *Time and Continuum: Zenon Manifold* at <http://www.god-does-not-play-dice.net/zenon.pdf>

Let me begin with two excerpts from Wikipedia:

Quantum mechanics and classical physics  
[https://en.wikipedia.org/wiki/Quantum\\_mechanics#Quantum\\_mechanics\\_and\\_classical\\_physics](https://en.wikipedia.org/wiki/Quantum_mechanics#Quantum_mechanics_and_classical_physics)

Many macroscopic properties of a classical system are a direct consequence of the quantum behavior of its parts.

Macroscopic quantum phenomena  
[https://en.wikipedia.org/wiki/Macroscopic\\_quantum\\_phenomena](https://en.wikipedia.org/wiki/Macroscopic_quantum_phenomena)

Macroscopic quantum phenomena refer to processes showing quantum behavior at the macroscopic scale, rather than at the atomic scale where quantum effects are prevalent. The best-known examples of macroscopic quantum phenomena are superfluidity and superconductivity; other examples include the quantum Hall effect.

I suggest new macroscopic quantum phenomena: quantum fluids at room temperature, dubbed 'brain-controlled cold plasma' (BCCP)<sup>1</sup>. Namely, "macroscopic effects of so-called topological bridge (CQV) connecting the *potential* states of the human brain (p. 22) with the *potential* quantum-gravitational states (p. 29) of the physical system entangled with the brain": read p. 31 in *Time and Continuum: Zenon Manifold* at

<http://www.god-does-not-play-dice.net/zenon.pdf>

Let's dig deeper. To understand the measurement problem in QM, recall the so-called macro-objectification problem, from GianCarlo Ghirardi:  
<http://www.informationphilosopher.com/solutions/scientists/ghirardi/>

We have now reached the point where we can face the so-called problem of the macro-objectification of properties: how, when, and under what conditions do definite macroscopic properties emerge?

The measurement problem and macro-objectification problem are not solved: read Erwin Schrödinger from 1935 at p. 2 in *The Physics of Life* and, e.g., Maximilian Schlosshauer, [arXiv:quant-ph/0312059v4](https://arxiv.org/abs/quant-ph/0312059v4), 28 June 2005.

The main reason why the measurement and macro-objectification problems in QM are not solved is that the so-called quantum waves ([Wikipedia](https://en.wikipedia.org/wiki/Quantum_mechanics)), presenting the *potential* quantum states (read p. 31 [above](#)), possess *complex* (not real-valued) phase ([Chen Ning Yang](#)).

Think of four quantum dice, which you toss in the air, after which they drop on a table. All dice have to be correlated "in the air" ([atemporal Quantum Spacetime](#)) in such way that the

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<sup>1</sup> Download the latest version of this paper (BCCP.pdf) from [this http URL](#).

sum of their readings must be **already** (Sic!) confined in the interval [10, 20] at the instant they are fixed/dropped on the table. Due to the “speed” of light (read [below](#)), you can see the four dice *only* on the table, where they exist as *physical* ‘facts’. Suppose you observe four consecutive sets of readings, (3, 5, 1, 6), (6, 4, 3, 5), (5, 6, 2, 6), (1, 3, 5, 1), all of which are pre-correlated by the *atemporal* requirement [10, 20]. The trajectories of all dice are comprised *only* by their *physical* states ‘on the table’, which were pre-correlated ([Henry Stapp](#)), like the school of fish [below](#). They will be bootstrapped into holistic ‘school of dice’ and will display *wave-like* holomovement, without any *physical* source ([Erwin Schrödinger](#)) of such “quantum wave” endowed with *complex* (not real-valued) phase ([Chen Ning Yang](#)).

The same phenomenon works in your brain, while you’ve been reading these lines. If the [human brain](#) seems too complicated, think of a [centipede](#): how does it correlate its legs? With some [invisible “dark” computer](#), which [does not emit nor reflect light](#)? I can’t help but quote [Sir Arthur Eddington](#): “Something *unknown* is doing we don’t know what.”

I suggest that the *potential* quantum states (read p. 31 [above](#)) are *atemporal* Platonic reality ([Wheeler’s “cloud”](#), p. 7 in [zenon.pdf](#)), known as *Res potentia*. But what is ‘atemporal’?

Read the answer to the question at Quora ‘Does light only exist at the speed of light? Does light accelerate and decelerate?’ by Andrew Jonkers from 30 March 2018 at

<https://www.quora.com/Does-light-only-exist-at-the-speed-of-light-Does-light-accelerate-and-decelerate>

The whole concept of acceleration or deceleration has no meaning in this context. It started here, and ended there, with a certain probability. That is all you can say. Mathematically it is a plane wave traveling out spherically in three dimensions. Not really a satisfying answer. Let’s try something else.

It is not even as if the energy spreads out in all directions, and then chooses all at once to clump in one place as a single packet of energy. It is like a large number of zombie copies head out in all directions, each with the energy of a photon, and also in total number only with the energy of one photon! The moment one is observed, all the rest disappear. Mmmm that description is not much better.

However you describe it in English, it won’t quite make sense. But that is what Nature does! Perhaps a better explanation is (from Feynman), following emission, all the possible paths are explored, assigned a likelihood, and then the photon takes one. Feynman went a bit further and adds up all the paths it can’t take as well, just to show they happen to sum to zero probability.

The *atemporal* Platonic reality is residing “between” the emission and absorption of a photon, which is why I suggested an *extension* (Sic!) of the light cone: read **NB** at p. 16 in [zenon.pdf](#). This is my interpretation of the Feynman path ([Wikipedia](#)), by replacing all “zombies” with the Platonic quantum state (read [above](#)) of not-yet-observed or “intact” *atemporal* photon, called here ‘John’ ([Erwin\\_Easter.jpg](#)). See quantum tunneling at p. 4 in [Wendelstein\\_7-X.pdf](#).

Now, what will happen if we create a new collective *atemporal* quantum state “of the physical system entangled with the brain” (read [above](#))? All constituents of the *physical* system will exhibit *holomovement* ([Wikipedia](#)), like a correlated school of fish ([YouTube](#)) bootstrapped by their “cold plasma”. Hence the term brain-controlled cold plasma (BCCP).

Check out my proposal (8 August 2019) for producing electricity at p. 8 (last) in [Can We Replicate Stellar Nucleosynthesis?](#), and the suggestion by a prominent theoretical physicist.

You may ask, what is the origin of the energy? We only have to follow Mother Nature: *tweak* the cancellation mechanism producing an immensely small – but not zero – “positive energy density of about  $6 \times 10^{-10}$  joules per cubic meter” from the vacuum ([John Baez](#)), and we will unleash *unlimited* positive energy density, for example, to produce electricity (p. 8 [therein](#)). Recall that gamma-ray bursts (GRBs) can release “as much energy in a few seconds as the Sun will in its entire 10-billion-year lifetime” ([Wikipedia](#)).

But how to *tweak* this cancellation mechanism? With [BCCP](#) and the so-called ‘evolution equation’ at p. 4 in [zenon.pdf](#). Notice the re-interpretation of “negative mass” ([Wikipedia](#)) and “negative energy” ([Wikipedia](#)) at p. 23 in [zenon.pdf](#). We need Mathematics and quantum gravity, not some “[meditation](#)” or “ecstatic visions” à la St. Joseph of Cupertino ([Wikipedia](#)).

For the record: I suggested ‘*atemporal* quantum reality’ on 5 February 1987, ensuing from the interpretation of QM by [Henry Margenau](#) from 1954, the transactional interpretation (TIQM), and the first off mystery in QM, known since 1911, thanks to [Charles Wilson](#). Read about it at p. 4 in [Penrose-Norris Diagram](#). To understand the current situation, read p. 28 in [zenon.pdf](#).

Watch ‘Spacetime Engineering 101’ on 15.01.2020 at [this http URL](#). To obtain the password for the video (720p, MP4), please follow the instructions at pp. 2-3 in [Spacetime Engineering](#). For other inquiries, notice the excerpt from my website at [this http URL](#).

August 14, 2019

Last update: August 27, 2019, 14:25 GMT

## Post Scriptum

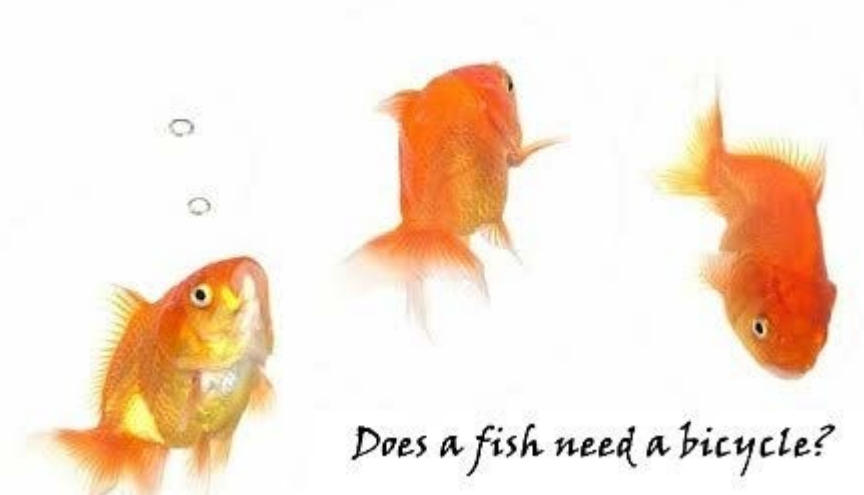
This is my photo from June 1994 (left), with my one-year old daughter. It was taken three months after I sent by snail mail my updated proposal for *atemporal* quantum reality from [February 1987](#) to many academic institutions, in March 1994. And this is how I look now.



Why is this important? Because now I can claim, with the benefit of the hindsight, that I could have offered my theory of spacetime and its testable predictions twenty years ago, by the end of 1999 at the latest, if only there was a trace of interest in quantum gravity and Mathematics by members of the theoretical physics community. In other words, I believe we could have *unlimited* ecologically clean energy by the end of 1999 (Sic!), instead of going to war on Iraq and killing 650,000 people, as estimated in the second *Lancet* survey from 11 October 2006 ([Wikipedia](#)). I can also claim, with the benefit of the hindsight, that we could have avoided the forthcoming climate catastrophe (p. 28 in [zenon.pdf](#)). Not to mention that I could have a normal family life, when my three kids were small and I was young and happy.

These statements of mine are, of course, *counterfactual*. Nobody knows what could have happened to me, if I had offered unlimited clean energy by the end of 1999. I could have been hit by a truck or killed with heart attack, whichever comes first. Anyway.

Now I am really old, and if people are still uninterested in my [proposal](#) – fine ([Matthew 7:6](#)). As I wrote on Easter 2019, “I keep exploring my “carrot” (p. 1 in [4]), it works like a charm, better than a Swiss watch” (p. 2 in [zenon.pdf](#)). I am only scratching the tip of the iceberg, very gently. Personally, I don’t need unlimited clean energy from [polarization of spacetime](#). Don’t need quantum gravity and cosmology either. I’m fine.



D. Chakalov  
 August 19, 2019  
 Last update: August 22, 2019, 12:50 GMT

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Subject: The preferred basis problem  
 Date: Sat, 24 Aug 2019 16:48:20 +0100  
 Message-ID: <CAM7EkxkpuUC3qv9803ojZWMFVbg4Yu-fqe0w2EZEhOQZzMnBxA@mail.gmail.com>  
 From: Dimi Chakalov <dchakalov@gmail.com>  
 To: Max <schlossh@up.edu>  
 Cc: Karl <svozil@tuwien.ac.at>, helfera@missouri.edu,  
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 norbert.straumann@gmail.com, vitasta9@gmail.com, seri@math.princeton.edu,  
 unruh@physics.ubc.ca, c.isham@imperial.ac.uk, ksavvidou@upatras.gr, anastop@upatras.gr,  
 giulini@itp.uni-hannover.de, teta@mat.uniroma1.it

Hi Max:

You mentioned the preferred basis problem in your arXiv:quant-ph/0312059v4, [http://www.god-does-not-play-dice.net/Max\\_title.jpg](http://www.god-does-not-play-dice.net/Max_title.jpg)

See the problem in KS Theorem at p. 18 in <http://www.god-does-not-play-dice.net/zenon.pdf>

Details in <http://www.god-does-not-play-dice.net/BCCP.pdf>

Should you decide to upgrade your arXiv:quant-ph/0312059v4 with KS Theorem, please drop me a line and I will elaborate: quantum “superposition” of classical states is an oxymoron. Erwin Schrödinger explained the issue in 1935,

[http://www.god-does-not-play-dice.net/Erwin\\_Easter.jpg](http://www.god-does-not-play-dice.net/Erwin_Easter.jpg)

Hope to hear from you. Karl Svozil, for example, knows my research since year 2000, after we met at his office in Vienna, yet he did not even mention the facts he learned from me in his 2018 book ‘[Physical \(A\)Causality](#)’.

All the best,

Dimi Chakalov  
[chakalov.net](http://chakalov.net)

## NOTE

The application of KS Theorem (p. 18 in [zenon.pdf](#)) to the preferred basis problem ([Max\\_title.jpg](#)) is the core of my proposal for *atemporal* quantum reality from 5 February 1987 (read [above](#)). Back in September 2002, I was kindly invited by Prof. [Chris Isham](#), Britain’s greatest quantum gravity expert ([Wikipedia](#)), to present my ideas at his *Tuesday Seminar* at Imperial College London, Room 503 Huxley. He knew my proposal for *atemporal* quantum reality very well, after we met in November 1998 and had numerous private discussions at his office. I wholeheartedly agreed, and suggested to schedule the seminar for *Wednesday*, 27 November 2002. Why? To see whether Prof. Chris Isham would instead suggest *Tuesday*, 26 November 2002, as his seminar was held only on *Tuesdays*. But he had no objections. However, my scheduled talk was still **not** listed at the webpage of the *Tuesday Seminar* by mid-October 2002. I got nervous and ask him by email whether his colleagues at the Physics Department are aware of the seminar, to which he responded that perhaps 3-4 people (Sic!) will attend, so we’ll have discussion at his office! That was totally unexpected, and I tried to explain to him the crucial importance of my proposal to quantum gravity. As Henry Margenau wrote in 1954 regarding the **latent** observables in QM (*Physics Today* 7(10), 6–13 (1954), [p. 10](#)): “I believe that they are “not always there”, that they take on *values* when an act of measurement, a perception, forces them out of indiscriminacy or latency.”

**Where** the latent observables could exist, during the “time” (if any) of still being “not always there”? Erwin Schrödinger explained the puzzle in 1935 ([Erwin\\_Easter.jpg](#)). Once we add to the puzzle from 1935 the KS Theorem (p. 18 in [zenon.pdf](#)) and the preferred basis problem ([Max\\_title.jpg](#) and Henry P. Stapp, [arXiv:quant-ph/0110148v2](#), Sec. 3), the need for *atemporal* quantum reality (read [above](#)) becomes *agonizingly* clear! We need new type of **spacetime** for quantum gravity, to accommodate the [atemporal quantum reality](#), and “Britain’s greatest quantum gravity expert” can certainly say something about it. But he fired back with the following (Wed, 23 Oct 2002 19:24:15 +0100):

“You do not know enough theoretical physics to help with any research in that area.”

Then I cancelled the so-called “seminar”. And now, 17 years later, it is far too late: read [above](#).

D. Chakalov  
August 26, 2019, 12:20 GMT

## APPENDIX I

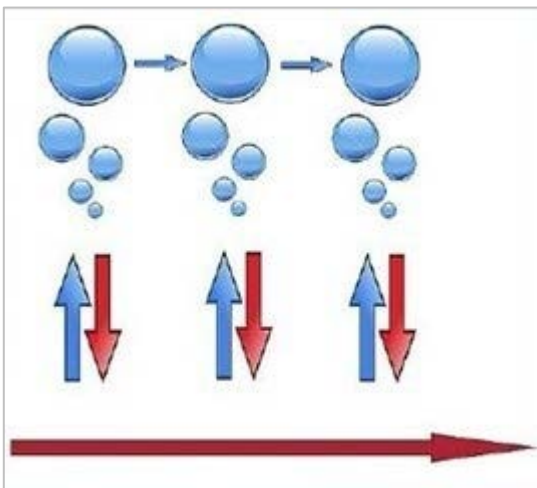
Read pp. 16-17 in [zenon.pdf](#). If the presentation seems complicated, try something very simple, such as the staggering error by Chris Isham (mentioned [above](#)) in his article, entitled 'Prima Facie Questions in Quantum Gravity', [gr-qc/9310031v1](#), 22 Oct 1993, p. 14: "The background Newtonian time (Sic! – D.C.) appears explicitly (Sic! – D.C.) in the time-dependent (Sic! – D.C.) Schrödinger equation." Do you smell rat?

Let me go back to my proposal for *atemporal* quantum reality from [5 February 1987](#), and quote Erwin Schrödinger, Die gegenwärtige Situation in der Quantenmechanik I-III, *Naturwissenschaften* 23, 1935, S. 807-812; 823-828; 844-849 (translated by [John D. Trimmer](#)):

### Sec. 8, Theory of Measurement

The rejection of realism has logical consequences. In general, a variable *has* no definite value before I measure it; then measuring it does *not* mean ascertaining the value that it *has*. But then what does it mean?

It means that we cannot observe *the* quantum state (dubbed 'John', see [Erwin\\_Easter.jpg](#)), but only its *physicalizable* 4D "jackets". Recall [Charles Wilson](#) from 1911 (Slide 7 in [Quantum Spacetime](#)):



Can we explain the **red** and **blue** arrows in Wilson cloud chamber?

Can we explain *consecutive* energy-momentum exchanges between the quantum **particle & wave** and its **macroscopic** environment? Are quantum waves with **complex** phases (Chen N. Yang 1987) physical reality or *physicalizable* reality (Slide 15) "just in the middle between possibility and reality" (Heisenberg 1958)? What is the origin of **time** in Schrödinger equation? Can **clocks** read it?

**Yes** and **No**: The **matrix** (Chakalov 2016).

Another excerpt from [Erwin Schrödinger](#) (emphasis mine):

### Sec. 9, The Psi-function as Description of State

The rejection of realism also imposes obligations. (...) Therefore if a system changes, whether by itself or because of measurements, there must always be statements **missing** from the new function that were contained in the earlier one. In the catalog not just **new** entries, but also **deletions**, must be made.

Thus, the Psi-function as 'expectation-catalog' offers only **statements** about **propensities** for *physicalizable* 4D "jackets", and these **statements** are of course context-dependent ([Wikipedia](#)): we can both **add** and **delete** new "entries". And if we examine the KS Theorem (p. 18 in [zenon.pdf](#)) and the preferred basis problem ([Max\\_title.jpg](#) and Henry P. Stapp, [arXiv:quant-ph/0110148v2](#), Sec. 3), the need for *atemporal* quantum reality (read [above](#)) is indeed *agonizingly* clear. The quantum state ([John](#)) does not live on the light cone (p. 16 in [zenon.pdf](#)). It is **UN**colorizable (p. 18 in [zenon.pdf](#)) and cannot *in principle* be measured with/by its color-able, physicalizable 4D "jackets", although the latter can indeed be treated with "probabilities" ([Erwin Schrödinger](#)) that can nicely sum up to **unity**. *Der Herrgott würfelt nicht!* ([Albert Einstein](#)). God casts the **matrix** (p. 7 in [zenon.pdf](#)), not the dice.

In 2006, FOXi awarded Chris Isham \$75,000 for his efforts dubbed "[topos quantum theory](#)", and in 2011 he received the [Dirac Medal](#) for "major contributions to the search for a consistent quantum theory of gravity and to the foundations of quantum mechanics." I only got his statement [above](#). [Maurice de Gosson](#) was a bit more specific: "Buzz off, idiot!" (p. 8 in [Wendelstein\\_7-X.pdf](#)).

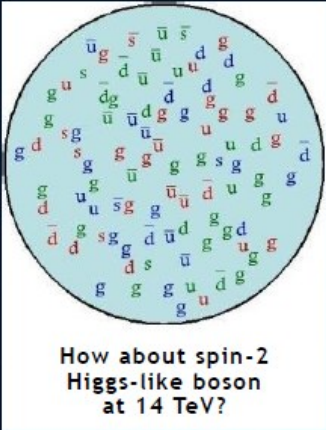
D. Chakalov

August 28, 2019, 11:30 GMT

## APPENDIX II

To understand the Platonic **matrix** (p. 7 in [zenon.pdf](#)), recall the proton mass ([Wikipedia](#)): the combined mass of two up quarks and one down quark makes roughly 1% of proton's mass (Yi-bo Yang *et al.*, [arXiv:1808.08677v2 \[hep-lat\]](#)). See Slide 10 in [Quantum Spacetime](#):

## Atemporal Quantum Reality: Proton's Mass



How about spin-2 Higgs-like boson at 14 TeV?

Only about 1% of proton's mass can be traced to **quarks** (two up quarks and one down quark), whereas 99% of its mass belongs to Quantum Chromodynamics (QCD) binding energy. Imagine zillions of quarks (u,d,s), antiquarks (u,d,s with a bar on top), and gluons (g) zipping around near the speed of light, banging into each other, and appearing and disappearing from QCD vacuum (Strassler 2010): they are able to assemble proton's **mass** of 938 MeV/c<sup>2</sup> with error margin of just *one part in 10<sup>45</sup>* (Dolgov 2012), for at least 10<sup>29</sup> years.

What phenomenon could create 10<sup>82</sup> **identical** protons?

To understand the error margin of **one part to 10<sup>45</sup>** in assembling proton's mass, controlled and executed by proton's **matrix**, read [Alexander Dolgov](#): "The value of the vacuum energy of the quark and gluon condensates (36) is practically established by experiment. To adjust the total vacuum energy down to the observed magnitude,  $\sim 10^{-47}$  GeV<sup>4</sup>, there must exist another contribution to vacuum energy of the opposite sign (Sic! – D.C.) and equal to the QCD one with precision of one part to 10<sup>45</sup>. This new field cannot have any noticeable interactions with quarks and gluons, otherwise it would be observed in direct experiment, but still it must have very same vacuum energy. This is one of the greatest mysteries of Nature." ([arXiv:1206.3725v1 \[astro-ph.CO\]](#), p. 14.)

The "contribution to vacuum energy of the opposite sign" has completely different interpretation: read p. 3 [above](#). Nature can "adjust the total vacuum energy down to the observed magnitude", in such way that "the vacuum energy of the opposite sign" acts as a "new field" that "**cannot** have any noticeable interactions with quarks and gluons".

Why not? Because proton's **matrix** is *always nullified* ( $|\mathbf{w}|^2 = \mathbf{0}$ ): read again [Erwin Schrödinger](#). It only acts as proton's "memory": **if A**, then **B** (p. 25 in [zenon.pdf](#)). Hence Nature can assemble 10<sup>82</sup> *identical* protons, and keep doing it for at least 10<sup>29</sup> years. Forget about "[Higgs boson](#)". Simple, no?

Here is a broader explanation of the Platonic **matrix**. Consider a **set** of three apples on your table. They possess "full reality" ([Erwin Schrödinger](#)): we can attach to them 'probability for observation', and the sum of all probabilities will sum up to **unity**. However, the Platonic **matrix** of the **set** of apples is not *physical* reality. It (not "He") is Platonic 'apple *per se*', which bootstraps the **set** of apples, yet the apple's **matrix** is *always nullified*, like  $\mathbf{3} + \mathbf{0} = \mathbf{3}$ . Namely, the apples do not interact with their Platonic **matrix**, but *only* with themselves, by their **self-action**. They will exhibit wave-like *holomovement* (see the four dice at pp. 1-2 [above](#)), which will in turn *increase* their "**binding energy**", but without new [Higgs-like](#) apples or "invisible hobgoblins" (p. 12 in [zenon.pdf](#)).

Now replace the two up quarks and one down quark with Platonic 'proton *per se*', so that all quarks make roughly 1% of proton's mass fixed by proton's **matrix**, with the precision of **one part to 10<sup>45</sup>**. Voila.

## APPENDIX III

My first email to CERN was sent on 18 April 2013, regarding the alleged "[god particle](#)". I only stressed, very politely indeed, that they do not have any theory to speculate about some "[Higgs boson](#)", and will have to start from the facts known since **1911**: read p. 6 [above](#) and the widely known, and still unsolved, puzzle about proton's mass at p. 7 [above](#). Since February 2017, my email address was banned by the talibans at CERN, due to some "[phishing attacks](#)". On 1 March 2017, I used another email address to send my objections. It was *not* bounced back. Read it below.

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Subject: CERN talibans: Get professional.

Date: Wed, 1 Mar 2017 18:18:41 +0100

Message-ID: <trinity-24847b9e-5482-433a-8a40-66ef9d341789-1488388721566@3capp-mailcom-lxa07>

From: quantum.gravity@mail.com

To: th-unit-secretariat@cern.ch, David Charlton <d.g.charlton@bham.ac.uk>, SERGIO.BERTOLUCCI@cern.ch, URS.WIEDEMANN@cern.ch, Fabiola Gianotti <Fabiola.Gianotti@cern.ch>, Ignatios Antoniadis <antoniadis@itp.unibe.ch>

"Overfunded research is like heroin: It makes one addicted, weakens the mind and furthers prostitution."

Johann Makowsky, The Jerusalem Post, 19 April 1985.

Shame on you, CERN talibans. You are wasting BILLIONS of euros, all taxpayers' money.

All you could do is to ban my gmail address due to some "phishing attacks", which I have never made.

Fact.

Check out the slides of my forthcoming talk in Geneva at

<https://www.youtube.com/watch?v=ac11wWHwXW0>

[http://www.god-does-not-play-dice.net/DC\\_Slide\\_1.pdf](http://www.god-does-not-play-dice.net/DC_Slide_1.pdf)

If you cannot find any "phishing attacks" in my slides, come to the conference in Geneva this June,

<https://beyondspacetime.net/2017conference/>

I will teach you a lesson you will never forget.

Promise.

D. Chkalov

[chkalov.net](http://chkalov.net)

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I do not tolerate communist censorship (p. 4 in [Penrose-Norris Diagram](#), read p. 3 [above](#)) or taliban censorship. I am always ready to teach the CERN talibans a lesson they will never forget. **Promise.**

Notice my prediction about **spin-2** Higgs-like boson at p. 7 [above](#). Here I wish to remind CERN talibans that they cannot find the "[last turtle](#)" called "god particle": [Turtles all the way down](#).

To be specific, the so-called "Higgs mechanism" ([David J. Miller](#)) is the *generic mechanism* of unleashing the **exact** amount of *positive* energy density (p. 3) from the quantum vacuum, controlled and executed by proton's **matrix**: recall Alexander Dolgov [above](#). Now look at the "width of the Higgs boson" ([CERN](#)): "The Heisenberg Uncertainty Principle **implies** (Sic! – D.C.) that the energy, and thus the mass as well, of all unstable particles must have an uncertainty (*flexibility* – D.C.), which is inversely proportional to their lifetime. This uncertainty is quantified by the particle's "natural width", which characterises the **range** (Sic! – D.C.) of masses with which a particle is observed. (...) The Higgs boson signal, in red, appears over a **range** of values (Sic! – D.C.), which is dominated by the precision of the experimental measurement, and not the width of the Higgs boson." Once you enhance "the precision of the experimental measurement", you will discover a *family* of such bosons, including the one with **spin-2** dubbed **G** (Chao-Qiang Geng *et al.*, 9 Jan 2013, [arXiv: 1210.5103v2 \[hep-ph\]](http://arxiv.org/abs/1210.5103v2)). Of course, **G** has nothing to do with that crap called "[graviton](#)".

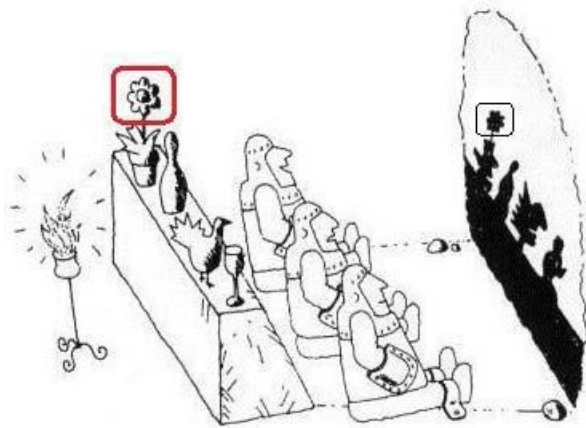


Needless to say, I will be more than happy to elaborate in details, starting from the Heisenberg “uncertainty” principle. If the error margin in assembling proton’s mass is **one part to  $10^{45}$** , what kind of “uncertainty” governs those quarks, antiquarks and gluons, “banging into each other, and appearing and disappearing from QCD vacuum” (p. 7 [above](#))? We need new [Quantum Spacetime!](#) Read Erwin Schrödinger at [p. 6](#) and [Peter Milonni](#). However, my gmail address is [banned by CERN](#).

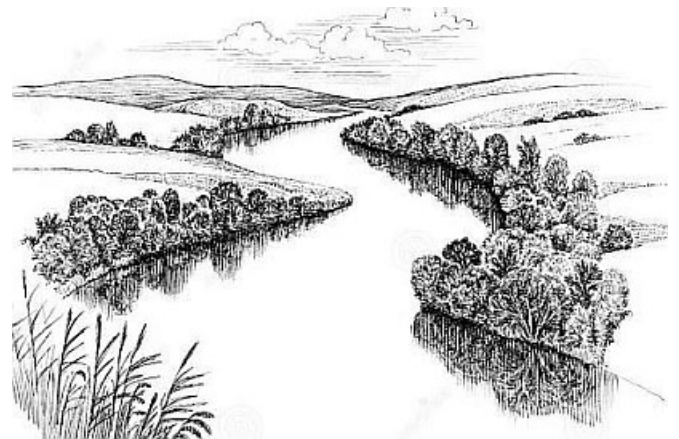
If your email address is *not* banned by CERN, please send the link to this paper to CERN and to all your colleagues:

<http://www.god-does-not-play-dice.net/BCCP.pdf>

To those interested in the global picture, read carefully all papers listed at the first paragraph of my website at [chakalov.net](#). I suggest a new *pregeometric* theory of spacetime, based on [first principles](#) from Plato and Heraclitus (see the drawings below, from p. 11 in [Platonic Theory of Spacetime](#)), and on Aristotle’s [Unmoved Mover](#) (‘that which moves without being moved’).



Thanks to the “speed” of light, we cannot turn around and look directly at the Platonic world.



Everything changes and nothing remains still — you cannot step twice into the same stream.

The Platonic world (*Res potentia*) and the fundamental *arrow* of 4D events (Heraclitus) cannot be *directly* observed due to the “speed” of light. They are *perfectly* hidden “inside” the geometric point, thanks to which we inhabit *perfect* 4D spacetime continuum. The geometric point — the quantum of spacetime called ‘atom of geometry’ — cannot be broken even with Gedankenexperiment: read p. 1, pp. 7-9 and pp. 16-17 in [zenon.pdf](#). For comparison, notice the inevitable gaps in the drawing below, like snapshots from a [movie reel](#). These gaps are *perfectly* sealed by [Time & Continuum](#).

[---one photon---]between[---one photon---]between[---one photon---

If the Platonic world (*Res potentia*) was exposed to light, the Aether could be [physically detected](#), along with the *arrow* of 4D events (Heraclitus), and we will look at the *next* “[turtle](#)”, *ad infinitum*. Sure enough, the [Unmoved Mover](#) cannot be *directly* detected either. Thank God, this is impossible.

The quantization of spacetime manifold with the so-called atom of geometry is based on the old idea of the Dragon ([Ouroboros](#)) biting its tail: see the endless *cycle* (Sic!) explained at p. 3 in [Penrose-Norris Diagram](#), and in Fig. 3 at p. 16 in [zenon.pdf](#). Notice the **potential future** in Fig. 3: it harbors the *atemporal* Platonic reality manifested with Platonic **matrix** mentioned at [p. 6](#) and at pp. 8-10 in [The Physics of Life](#). The *irreversible past* is the arena of the physical or rather *physicalized* 4D world, which is being **re-created** at every instant ‘here and now’. The total energy of the **re-created** Phoenix Universe is *exactly nullified*, and hence *exactly* conserved (p. 15 in [zenon.pdf](#)) — once-at-a-time, as read with a physical clock. Implications at p. 27 and p. 31 [therein](#), as well as at p. 1 [above](#) (BCCP).

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