

Brain-Controlled Cold Plasma (BCCP)

D. Chakalov
chakalov.net

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

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

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). 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 at p. 2 in *The Physics of Life: Flipping a Quantum Coin* 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](#)), 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 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 are *already* 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 "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, 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* of the light cone: read **NB** at p. 16 in [zenon.pdf](#). It is also an interpretation of Feynman path ([Wikipedia](#)) without "[zombies](#)".

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 *tweak* the cancellation mechanism, which produces an immensely small – but not zero – magnitude of “positive energy density of about 6×10^{-10} joules per cubic meter” from the vacuum ([John Baez](#)), and could unleash *unlimited* positive energy density, more than enough to produce electricity (read p. 8 [therein](#)). For example, 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. All you need is a [brain](#).

For the record: I suggested ‘*atemporal* quantum reality’ on 5 February 1987, ensuing from the transactional interpretation of quantum mechanics (TIQM) and the first off mystery in Quantum Mechanics, 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’, which will be released on 15.01.2020 at [this http URL](#). To obtain the password for the video (720p, MP4), follow strictly the instructions at pp. 2-3 in [Spacetime Engineering](#). I will reply within five working days.

D. Chakalov

August 14, 2019

Last update: August 19, 2019, 13:22 GMT