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THE BIOLOGICAL ORIGIN OF QUANTUM EFFECTS IN THE UNIVERSE

Abstract: The origin of quantum effects in our open universe is explainable without calling in the aid of agents not in evidence by proposing that human life constitutes the universe's seed or input and output. Biogenesis affirms the eternity of human life and falsifies abiogenesis. From the human origin of the universe follows that quantum effects are taking place throughout the universe since its beginning. Our open universe, being the quantum system of its human input, yields human output akin to the human input. Human life and the universe are indubitably in evidence, consequently the theory is falsifiable.

Keywords: cosmology, biogenesis, human input, human output, quantum effects

Although no scientific evidence whatsoever exists to falsify biogenesis, the most evident law in biology – namely "The principle that a living organism can only arise from other living organisms similar to itself (i.e. that like gives rise to like) and can never originate from nonliving material," as *The Oxford Dictionary of Biology* (2015) [1, 2] stipulates –, yet the superstition of life's spontaneous generation from nonliving material is still being promoted in the name of science. As Cyril Ponnamperuma commented on the subject in his *The Origins of Life* (1972) [3]: "It is, perhaps, ironic that we tell beginning students in biology about Pasteur's experiments as the triumph of reason over mysticism yet we are coming back to spontaneous generation, albeit in a more refined and scientific sense, namely to chemical evolution."

The irrational belief that inorganic physical systems produced by chance over eons of time the first primitive form of life that managed to evolve into humans is evidently rooted in the conviction that prior to the universe a singularity's Big Bang resulted the formation of the universe and that of life. Not surprisingly quantum biology is attempting to explain quantum phenomena in biological systems by reducing biological processes to fundamental physics [4].

The reductionist method is demonstrably the wrong approach. In the light of biogenesis what needs to be recognized in quantum biology is the fact that *quantum effects exist in biology because the cause of those effects is biological*. Thus instead of applying quantum mechanics to biological objects and problems it makes more sense to apply biology to the problems of quantum mechanics.

To provide an illustration, quantum effects exist in a tree because that biomass is the creation of its parent seed, and not because it spontaneously emerged from the quantum fluctuations of the vacuum. Similarly, quantum effects exist in the universe because that biomass is the creation of its human input, and not the creation of quantum fluctuations.

Thus the universe is a biomass, similarly as a tree is a biomass, for the simple reason that it is a quantum system that yields human output in the human input's image.

In 1973 Edward P. Tryon, a professor emeritus of physics at Hunter College of the City University of New York, was the first physicist to propose that our universe originated as a quantum fluctuation. In his *Nature* article of 14 December 1973, "Is the Universe a Vacuum Fluctuation?" [5], he wrote: "Here I propose a specific big bang model which I believe to be the simplest and most appealing imaginable—namely, that our Universe is a fluctuation of the vacuum, where 'vacuum fluctuation' is to be understood in the sense of quantum field theory."

According to Tryon's model "the Universe has always existed," and "did indeed appear from nowhere" about 10 billion years ago.

One may add in this connection that the concept of the origin of the universe known as the Big Bang model is based on the observation that instead of decreasing, the expansion of the universe is accelerating. But in 2014 the journal *Nature* (**507**, 90–93) [6] published an article showing that trees – including California's giant redwoods – instead of decreasing accelerate their mass growth rate as they get older and bigger. Nathan Stephenson, the study's lead author, wrote: "… for most species mass growth rate increases continuously with tree size."

The world's largest tree known to us is a giant redwood, namely the General Sherman Tree in California's Sequoia National Park. So based on the facts that the older the General Sherman Tree gets the faster its mass growth increases; that an estimated 97 percent of the General Sherman Tree's biomass is considered to be nonliving; and that no one living today could have observed its seed origin, are we going to extrapolate its expansion backward in time and conclude that initially the entire tree existed in an extremely compressed and hot state which dimensionless "point" exploded, giving rise to our tree's mass and structure, and eventually to the first biomolecules that managed to evolve into the complexity of leaves, flowers and seeds, as a result of "natural selection" acting on "random mutations"?

This illustration demonstrates that the "scientific method" of extrapolation is likely to lead to absurdities. Just as a tree's accelerated expansion is not the result of an explosion, undoubtedly the universe's accelerated expansion is not the result of a Big Bang. And just as the agent that can be used to describe correctly a tree's creation is its parent seed, most certainly the agent that can be used to describe correctly the universe's creation is its parent seed.

Even if a tree's parent seed is not observable and tangible that seed input is indicated by the tree system's seed output. As in the case of a tree, so in the case of the universe. Systems resemble each other in fundamental ways, consequently if we can identify our universe's output, that output will indicate our universe's input.

Based on the fact that a tree's seed input is made manifest by its seed output – which output can be used to describe the tree's creation –, we infer that our universe's input is made manifest by its human output, which output can be used to describe the universe's creation.

Understandably the universe's parameters are precisely fine-tuned for the production of human beings, just as a tree's parameters are precisely fine-tuned for the production seeds, because the universe is a human being's way of making reproductions of itself. In a nutshell this is the scientific explanation for the anthropic properties of the universe.

It may be added that the initial human input generates the universe in order to recreate itself into human input, which recreation may constitute the input of the next universe.

Thus the fundamental agent we are missing in modern cosmology is the human input or seed of the universe, which seed's properties constitute universal consciousness, the forces and laws of nature, and give particles mass and structure for the generation of the cosmic system.

From the human input of the universe follows that the detected cosmic microwave background radiation is not the afterglow of the conjectured Big Bang, but rather the coherent biophoton life field, gravitational field, or quantum field of the universe's human input or parent seed.

From the human input of the universe also follows that the universe is an open quantum system, a human-centric system, similarly as a tree is a seed-centric open quantum system. Thus quantum theory is intrinsically open systems theory. In the future any quantum automata theory should accommodate the external agent, namely the initial human input of the universe.

Finally from the human input of the universe also follows that we human beings are not merely one of the animal species, but the very offspring or children of the universe's human input.

It may be reasonably concluded that the quantum fluctuations are not the cause of the universe, but the effects of the human input of the universe. The very term "fluctuate" denotes movement, and what moves is animated, quickened, given life. The universe expands, and is accelerating its expansion, because it is animated by its human input and output. "*Homo mensura*" (man is the measure of all things), said Protagoras, and this statement is consistent with the known facts available to us even today.

References and notes:

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