

On value of David Bohm's Quantum Mechanics

Dmitri Martila, eestidima@gmail.com
Lääne 9-51, Tartu 50605, Estonia.
Deployed from Tartu University.

The Templeton Prize winner wrote: „In the second half of the eighteenth century, the deterministic character of Newton's equations encouraged many people to see the physical world in strictly mechanical terms, as if the universe is a gigantic piece of cosmic clockwork.” [1]

Such wrong view comes from the believe, that the energy and momentum are always conserve. It means: if I pull the door, the door reaction pools me. Thus, our opposite momentums vanish each other. When I have pooled the door, I have lost a bit of food in my stomach: So the kinetic energy of accelerated door came from my food. Nothing lost, nothing is gained. But what if the invisible God does some job? What if an angel pools the door for us? Can a divine be source of energy and momentum, or they are being simply created from nothing? Because the energy and momentum are material essence, when they are being simply created. Thus the system of God, angels, matter and us is not closed. So, the law of decay (the grow of entropy [9]) is not taken the place. It is the eternal life with care of our Lord. And they will eat from the Tree of Life.

To describe some (not all) actions of God within Newtonian formalism, one simply adds non-material force f to his second law: $m a = F + f$. Another kind of actions is materialization and de-materialization (Jesus came to them while doors were closed). Latter violates Einstein's General Relativity, thus the additional non-material terms X shall be added to the Einstein Equations: $G + X = 8\pi T$. In the book [2] they are identified as Dark Matter and Dark Energy.

The Quantum Mechanics of Niels Bohr is not complete. Proof: Schrödinger equation contain only one parameter U for describing the forces acting on particle. However there shall be 3 functions for general forces (as example the magnetic force $v \times B$ has three independent components), which are not expressible simply by potential U , it means $F + f \neq \text{grad } U$. Secondly, an individual test, the single hit of the particle into screen, is not subject to statistics. Therefore, even knowing the wave-function, the individual results are out of our (statistical) theory. It is „Unpredictability” John called [1]. Another words: a particle is not wave, but group of particles has statistical properties resembling a wave. Thus, within this logical anti-nihilistic approach the wave-particle dualism is simply solved.

John: „Unpredictability can be due to two quite different reasons. One would be an actual degree of intrinsic indeterminism present in nature, such as that which is supposed in Niels Bohr's Copenhagen interpretation of quantum theory.” [1] See Martila's criticism against wrong understanding of the Heisenberg's uncertainty principle in [8]. John: „The other possibility would be that unpredictability is simply the result of a necessary ignorance, arising from an intrinsic inaccessibility preventing us from gaining knowledge

of all the detailed factors which in fact actually fully determine what is happening. David Bohm's deterministic interpretation of quantum theory has this character due to the presence of „hidden wave" which influences the behaviour of particles. The fact that the theories of both Bohr and Bohm, though radically so different in character, yield the same empirical consequences shows that the choice between them cannot be made simply on purely physical grounds but it requires an act of metaphysical judgement." [1]

In 2015 appeared in the „Nature" the experimental paper [7], which tells, that Nature does not exist and that the David Bohm was wrong. Such a self-destructive irony: in the „Nature" is „No Nature" – wrong proof. Speaking of nihilism, the most grim picture is in Quantum Mechanics of Niels Bohr. In 2015 they have "proved" in elitist "Nature", that Schrödinger's Cat is real. Thus, the world does not exist: a thing can not both be and not be.



It is very convenient now: if even a grain of sand is crazy hallucination (like the "proven" "reality" of undead cat), then this non-existent grain needs no divine (loved, but more often hated) Creator. The reason of delusion: they have missed an intelligent factors, e.g. evil spirits, which very often act on the measuring device. Recall the wrong alarms in atomic armies. Quantum Bohr tells: no nature, until you look at it. But how can I look at nature, if there is no nature in the first place? Respect Quantum theory of David Bohm [6].

The Bohr has run into incompatibility with General Relativity [3]. Also the paradox, discovered by Dr. Cooperstock [4], shows that the wave presentation of photon

(probability wave of Bohr's philosophy) and Einstein Equations are incompatible, see my contribution [5]. Photon is particle in God's care and not a casual wave!

References:

- [1] John Polkinghorne FRS in „Physics and Theology” EurophysicsNews, vol. 45, 2014.
- [2] Dmitri Martila, "Simplest Explanation of Dark Matter and Dark Energy", 2013, LAP LAMBERT, ISBN 978-3-659-50275-0
- [3] „The Collapse Of Physics”, YouTube, mail.ru, starring Michio Kaku.
- [4] F.I. Cooperstock, "Energy localization in general relativity: A new hypothesis", Foundations of Physics 22, 1011 (1992).
- [5] Dmitri Martila. 2014. Can Niels Bohr's Philosophy be Wrong? viXra:1409.0177.
- [6] „David Bohm Quantum theory versus Copenhagen Interpretation.mov” on YouTube.
- [7] M. Ringbauer et al, Measurements on the reality of the wavefunction, Nature Physics (2015): "Wave function gets real in quantum experiment" in newscientist.com.
- [8] Dmitri Martila. 2014. Has Some Guy Called Bell Defeated Great Einstein?? viXra:1407.0035.
- [9] Dmitri Martila. 2013. Entropy of Real Pendulum. viXra:1311.0045.