

# Review of: "Materialization Mechanics: Bridging Physics to The Biblical Gospel of Prosperity"

Reiner Kümmel<sup>1</sup>

<sup>1</sup> Bayerische Julius-Maximilians-Universität Würzburg

**Potential competing interests:** No potential competing interests to declare.

This article is a challenge to Christian theoretical physicists. Its description of the Copenhagen interpretation of quantum mechanics is essentially correct, and it quotes meaningful passages of the Bible. In general, it is well-written, with the exception of the first two words, "Materialization Mechanics". It soon becomes clear that they refer to the collapse of the quantum mechanical (many-body) wave function to some special state it incorporates with some probability less than 1 when an experimenter investigates the system it describes. But at the first reading of the title, one may think of some esoteric stuff about matter creation. Why not write: "Schrödinger's Cat and Linking Quantum Physics to The Biblical Gospel of Prosperity"? Of course, then one would have to say some words about the multi-universe theory. According to this interpretation of quantum mechanics, if one prepares a closed box with a cat and a killer machine activated by a radioactive decay, which occurs with the probability 50% within one hour, and if one opens this box after one hour, the universe splits in two: in one, the cat is alive, and in the other one, the cat is dead. One can read this interpretation in certain physics articles. But more often, it is pointed out that quantum mechanical probabilities describe the outcome of very many identical experiments on identical objects. In the case of Schrödinger's cat, in 100,000 experiments, (about) 50,000 cats are alive, and 50,000 are dead. I prefer this interpretation. The author may wish to explain how this fits into what he calls "materialization."

And I have another problem. This is the assertion that the quoted biblical texts constitute a gospel of prosperity. The Constitution of the Universe says: 1) "The energy of the world is constant." 2) "The entropy of the world increases." These are the first and the second laws of thermodynamics as formulated by Rudolph Clausius, the discoverer of entropy, in 1865. And entropy is the physical measure of disorder. Presently, we feel the increase of entropy, i.e., the always positive entropy production in any many-body non-equilibrium system, by the environmental problems within Earth's biosphere. This should be addressed, too.

Reiner Kümmel