

Review of: "Bijective analysis of space expansion and comeback of stationary cosmology"

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The present paper criticizes the standard paradigm of cosmology, which by itself is a great project. The author proposes bijective scientific models and uses the falsifiability criterion to come to his conclusions. I must say that his bijective model is not properly explained in this paper, it requires more explanation. As an example, in physics we never see or observe electromagnetic fields, we only know about them when they act on charges or magnets. Does that mean electromagnetic fields do not exist? We do not observe heat, we only see that it produces a burning sensation or powers steam engines, does that mean heat does not exist?

Cosmology is an open field, like biology. There isn't any axioms on which cosmological projects are built, except some demands from general relativity. In such kind of open systems (open in the sense you do not know how many variables or parameters will ultimately describe the system) Popper's falsifiability does not work. These systems are inherently complex and new features come up. Moreover a lot of cosmology is still descriptive, observation based, and we even do not know what is the principle of falsifiability in such a discipline.

In light of all these remarks, I strongly recommend the author to strengthen his thesis on bijective models and falsifiability in cosmology.