Review of: "Reevaluating Cosmic Origins: A Critical Analysis of Relic Radiation and Cosmometric Assumptions in Big Bang Cosmology"

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Potential competing interests: No potential competing interests to declare.

This article (v4) brings up two issues in Big Bang assumptions, based on the nature and observability of CMB: (1) the primeval fireball delusion leading to a loss of homogeneity in a Big Bang universe, and (2) the relic radiation blunder.

Critical comments have already been received against both assertions. The main argument used is that some versions of the Big Bang have assumed that the Big Bang occurred everywhere in the early universe while this article is assuming a single fixed-point model.

It should be noted that the nature and observability of the CMB of the present universe cannot be used to settle the argument on how an event happened a long time ago. However, a conceptual debate is still quite in order. It could not be denied that if a Big Bang did take place in the very beginning, it must be a physical event. But as no ‘everywhere’ physical event has been observed to have taken place, it must be impossible for a physical event to happen everywhere. The Big Bang could not be an exception.

Instead of ‘moving frame’, the author could raise the issue about velocity. Without a fixed reference point, the velocity of a body cannot be measured. Velocity is a vital element in Big Bang theory. If the Big Bang occurred everywhere in the universe, how can the velocity of expansion be determined?