

Review of: "The big bang theory: two fatal flaws"

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Potential competing interests: No potential competing interests to declare.

I am glad to see that the paper's author makes some significant effort to critically review the current scientifically and observationally based scenario for the structure of the universe and its early evolution.

Having said this, I am unfortunately forced to add that the author, in his analysis, appears to have overlooked fundamental aspects of that currently accepted scenario. A few points to mention in the following.

The Big Bang, and radiation there generated, is not directly observable because the cosmic fluid remained completely opaque to radiation down to 380.000 yrs thereafter.

Such opacity and the universal homogeneity (proven by observations) imply that later expansion maintained the black body nature of the cosmic radiation, only decreasing its temperature proportionally to the scale factor $a(t)$.

Photons that we receive now from the last-scattering surface are not produced by the plasma from which our Galaxy, our Sun, planet, and body are eventually formed (as these photons travel faster than expanding matter).

Such photons come from the epoch when the plasma became transparent, the recombination, and we receive such photons isotropically.

On one side,

I much applaud the author's interest in such a fascinating field as cosmology and I fully encourage him to continue and deepen his studies and thoughts. However, the only thing I am in a position to suggest him is to go back to textbooks (part of which he already mention in the paper; I can add, for example, Malcolm Longair "Galaxy Formation", or Rowan-Robinson "Cosmology", for example). This way will allow the author a better understanding of this marvelous

conquery of XX century science and correct present faults in his view.