

Review of: "Exact Solutions of Kantowski-Sachs spacetimes in the Framework of Creation-Field Cosmology"

Yerramsetti Aditya¹

1 GMR Institute of Technology

Potential competing interests: No potential competing interests to declare.

In modern cosmology, the scenarios of early inflation (immediately after the Big Bang) and late-time accelerated expansion of the universe are attracting several researchers. A host of research papers have appeared in the literature on dark energy models in several modified theories of gravitation. The problem is interesting. The author of this paper has constructed the cosmographic equations in the context of a creation field theory of Hoyle and Narlikar. Exact solutions are obtained by considering an arbitrary creation field function that depends generally on space and time. Exploring the physical parameters of these solutions reveals that both the inflationary scenario and the accelerated expansion of the universe are possible. In order to avoid the Big Bang scenario, a non-singular solution was introduced. On the whole, it is original and sound. Hence, I recommend the manuscript for publication in its present form.

Qeios ID: JNKC7N · https://doi.org/10.32388/JNKC7N