The Exact Vacuum Solution for Kasner Metric from Bianchi Type-I Cosmological Model

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Abstract

An exact solution of the vacuum Einstein field equations (VEFEs) has been obtained of a spatially homogeneous and anisotropic (SHA) Bianchi type-I cosmological model by Kasner. The Kasner metric is shown to be a special case, and the exact vacuum solution of Kasner form model is obtained. Some physical properties of the model have been discussed.

References

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Index Terms

- Computer Science
- Applied Sciences

Keywords

Bianchi type-I, Vacuum solution, Cosmological model, Kasner form