

Bianchi Type- I Viscous Fluid Cosmological Models with Stiff Matter and Time Dependent Λ - Term

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Abstract : Einstein's field equations with variable cosmological term Λ are considered in the presence of viscous fluid for Bianchi type I space time. Exact solutions of Einstein's field equations are obtained by assuming cosmological term Λ Proportional to $(R$ is a scale factor and m is constant). We observed that the shear viscosity is found to be responsible for faster removal of initial anisotropy in the universe. The physical significance of the cosmological models has also been discussed.

Keywords : bianchi type, I cosmological model, viscous fluid, cosmological constant Λ

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