72. Magnetized Dark Energy Model in Scalar Tensor Theory of Gravitation

S.D.Katore, A.Y.Shaikh, M.M.Sancheti

ABSTRACT

In this paper, we have studied the solutions of cylindrically symmetric Einstein Rosen universe with variable ω in the scalar tensor theory of Gravitation proposed by Saez and Ballester (Phys. Lett. A 113:467, 1985) in the presence and absence of magnetic field of energy density ρ_B. A special law of variation for Hubble's parameter proposed by Berman (Nuovo Cimento 74 B,182(1983)) has been utilized to solve the field equations. Some physical and kinematical properties of the model are also discussed.

Keywords: Dark Energy , Magnetism.