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Marder's Two-Fluid Dark Energy Cosmological Models In Saez-Ballester Theory of Gravitation

Abstract

The present paper deals with cylindrically symmetric metric in
the form of Marder (1958) with Saez-Ballester theory of gravitation
in the presence of perfect
fluid and dark energy. In order to obtain
the deterministic solution of the field equations we have assumed that
the expansion scalar in the model is proportional to the Eigen value
of the shear tensor. We have also assumed that the two sources, here
the perfect
fluid and dark energy interact minimally with separate
conservative parts of their energy momentum tensors together with
the constant EoS parameter of the perfect
fluid. The role of the dark
energy in the present model with variable equation of state parameter
is stuied more in detail. Some physical properties of model are also
discussed.

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