

EXACT SOLUTIONS  
FOR TWO-COMPONENT COSMOLOGICAL  
MODELS IN THE EINSTEIN – CARTAN THEORY

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S u m m a r y

In the framework of the Einstein–Cartan theory, closed homogeneous isotropic cosmological models with nonminimal coupled scalar field and ultrarelativistic gas are considered. General exact solutions are obtained for an arbitrary coupling constant. It is shown that singular models and a countable number of nonsingular ones are possible. For the obtained solutions, restrictions on the coupling constant are found. The role of a ultrarelativistic gas in the evolution of models is elucidated.