

TWO-FLUID COSMOLOGICAL MODELS
IN THE EINSTEIN - CARTAN THEORY
WITH TWO SOURCES OF TORSION

A. M. Galiakhmetov

Donetsk State Technical University
(51, Kirov Str., Gorlivka 84646, Ukraine)

A variant of the Einstein - Cartan theory, in which a perfect fluid and a non-minimal coupling scalar field are the sources of torsion, is considered. The exact solutions for closed cosmological models with allowance for the stiff fluid have been obtained. It is shown that non-singular models are possible in some cases. The influence of material sources on the character of evolution of the models is discussed.