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**Some anisotropic homogeneous cosmological models in self-creation cosmology.** (English)

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Summary: The paper presents an exact solution of cylindrically symmetric cosmological models which are of Petrov type-I or Petrov type-D in Barber's second self-creation theory of gravitation. Some physical and geometrical properties of these models are also discussed.

**MSC:**

- 83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
- 83F05 Cosmology
- 83C15 Exact solutions to problems in general relativity and gravitational theory
- 85A40 Cosmology
- 83C20 Classes of solutions; algebraically special solutions, metrics with symmetries for problems in general relativity and gravitational theory

**Keywords:**

anisotropic; cylindrically symmetric; cosmological model; Petrov type-I; Petrov type-D; Barber's second self-creation theory

**Full Text:** [DOI](#)

**References:**

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