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**An anisotropic cosmological model in self-creation cosmology.** (English) Zbl 1446.83011  
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Summary: The paper presents an exact solution of spatially homogeneous and anisotropic cylindrically symmetric cosmological model in Barber's second self-creation theory of gravitation in the presence of perfect fluid with pressure equal to energy density. Some physical properties of this model are also discussed.

**MSC:**

- 83F05 Cosmology
- 83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
- 83C15 Exact solutions to problems in general relativity and gravitational theory
- 83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)

**Keywords:**

spatially homogeneous; anisotropic; cylindrically symmetric; cosmological model; Barber second self creation theory

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

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