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The relativistic fluid ball as a stratified model of an astrophysical object. (English)

Zbl 1232.85003

Gravit. Cosmol. 17, No. 2, 173-175 (2011).

Summary: A relativistic fluid ball with an inhomogeneous static stratified matter configuration is considered. A model of an astrophysical object with this structure of matter is constructed.

MSC:

85A15 Galactic and stellar structure

83C15 Exact solutions to problems in general relativity and gravitational theory

83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)

76W05 Magnetohydrodynamics and electrohydrodynamics

76Y05 Quantum hydrodynamics and relativistic hydrodynamics

Full Text: [DOI](#)

References:

- [1] A. M. Baranov and A. Yu. Osipov, Transactions of NKSF-XXXVIII (Krasnoyarsk, SibFU, 2009), p. 122 (in Russian).
- [2] A. M. Baranov and A. Yu. Osipov, Transactions of Russian school-seminar GRACOS-2010, p. 141 (2010) (in Russian).
- [3] A. M. Baranov, Abstr. of the Confer. "200 Years of Kazan University", p. 107 (2004).
- [4] A. M. Baranov, Vestnik of Krasnoyarsk State University, Phys. Math. Sci. No. 1, 5 (2006).
- [5] A. M. Baranov, Zh. SibFU. Mat. Fiz. 4(1), 3 (2011).

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