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Second order causal hydrodynamics in Eckart frame: using gradient expansion scheme.

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MSC:

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

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85A04 General questions in astronomy and astrophysics

76E20 Stability and instability of geophysical and astrophysical flows

85A15 Galactic and stellar structure

Keywords:

causal theory of hydrodynamics; theory of general relativity; relativistic astrophysics

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