



entropy



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Entropy and Dark Energy

Guest Editor:

Message from the Guest Editor

Prof. Dr. Michael Paul Gough

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The aim of this Special Issue is to collect works which consider the role that information energy can play as a source of dark energy, and also any possible role of information energy in explaining features previously attributed to dark matter. Subjects of interest include but are not limited to:

Deadline for manuscript submissions:

closed (20 November 2022)

- Landauer's Principle, information–energy equivalence;
- Information content of the universe, total information energy in the universe;
- Astrophysical and cosmological entropy;
- Information energy as dark energy;
- Holographic dark energy models;
- Comparison of information models with observational data;
- Information equation of state parameter and universe expansion;
- Information energy as a solution to tensions and problems of Λ CDM;
- Can the universe information energy distribution explain H_0 directional anisotropies?
- Does the information energy distribution within galaxies coincide with dark matter attributed effects?
- Information energy predicted experimental observation signatures for model falsification.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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