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Peer Review

Review of: "The Information Theory of Self-Organization Phenomena in Thermal Systems"

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It is very great to study Brownian motion from the perspective of Information Theory. And it is also very important for exploring the connections between Information Theory, Thermodynamics, and Complex Science. However, many fundamental statistical problems, like the proof and explanation of the ergodic hypothesis and entropy, are not well understood in section 2. Currently, there are also many different views on the understanding of information. In this manuscript, the authors mainly focus on the description of probability, while there are also numerous descriptions of the corresponding and the partitioning of information. I suggest that the authors could consider bridging the gap between Brownian motion in statistical physics, information theory, and complex science from the perspective of partition by adding some derivation referring to the following work with a discussion about entropy.

D. Zou, Information and helix mechanism of entropy increase[J]. AIP Advances, 13 (2023): 085330 (1-5)

Declarations

Potential competing interests: No potential competing interests to declare.

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