Special Issue

Entropy and Information in the Foundation of Quantum Physics

Message from the Guest Editor

Recent ideas regarding the emergent nature of quantum mechanics and the well-known relationship between black hole entropy and quantum thermodynamics, suggest a deep connection between the fundamental laws of physics, information and information loss on different levels. In particular, the entropic approach suggests a new perspective in quantum mechanics' foundation, especially with regard to the probabilistic nature of quantum variables. These ideas also have an elegant geometric representation in the phase space, they offer a new kind of visualization of quantum phenomena.

Guest Editor

Prof. Dr. Ignazio Licata

1. ISEM Institute for Scientific Methodology, Via Ugo La Malfa n. 153, 90146 Palermo, Italy
2. School of Advanced International Studies on Applied Theoretical and Non Linear Methodologies of Physics, 70121 Bari, Italy

Deadline for manuscript submissions

closed (31 May 2018)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/8097

Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

mdpi.com/journal/entropy

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/entropy

About the Journal

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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)

MDPI