Special Issue

Entropy in Foundations of Quantum Physics

Message from the Guest Editor

Recently, the interest in foundational research in physics has been rekindled, mostly due to the advances of quantum information. Not only does it provide versatile tools, but also ways to link this field with practical applications. Probably, the best example of such a connection is Ekert's cryptographic protocol from 1991. Since entropy can be used, among other things, to measure uncertainty and information capacity, it has been widely used in that field. Some of its applications include Bell inequalities, nonlocality, causal structures, system complexity and uncertainty relations. Moreover, presence of entropy in other areas of research allows it to become a bridge between foundations and these fields. Current trends seem to indicate that the role of entropy in the studies of the foundations of quantum physics will only increase and lead to many new exciting discoveries. I, therefore, encourage you to submit your work to this Special Issue.

Guest Editor

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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.

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

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