# **Special Issue**

## Foundations of Quantum Mechanics: Quantum Logic and Quantum Structures

## Message from the Guest Editors

The VIII Conference on Quantum Foundations aims to gather experts in the field to promote academic debate on the foundational problems of quantum theory. This Special Issue captures the main aspects of this debate by incorporating a selected list of contributions presented at the conference. Researchers not attending the conference are also welcome to present their original and recent developments, as well as review papers, on the topics listed below. All contributions will be peer-reviewed. Topics of the Special Issue:

- Quantum Information Science
- Quantum Statistical Mechanics
- Information Measures in Quantum Theory
- Quantum Correlations
- Uncertainty relations
- Geometrical Methods Applied to Quantum Theory
- Violation of Bell Inequalities
- Quantum Probabilities
- Decoherence and Classical Limit
- Quantum Computing
- Interpretations of Quantum Mechanics
- Quantum Contextuality
- Quantum Indistinguishability
- Quantum Logic
- Algebraic Methods in Quantum Theory
- Hidden Variable Theories
- Non-linear Methods Applied to Quantum Theory
- Foundations of Relativistic Quantum Mechanics

#### **Guest Editors**

Dr. Federico Holik

Dr. Gustavo Martin Bosyk

Prof. Dr. Olimpia Lombardi

Dr. Sebastian Fortin

Deadline for manuscript submissions

closed (15 October 2019)



## Entropy

an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



mdpi.com/si/16370

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

mdpi.com/journal/

entropy





an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



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)