

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

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Deadline for manuscript submissions

closed (15 October 2019)



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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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