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The Philosophy of Quantum Physics

Guest Editors:

Prof. Dr. Arkady Plotnitsky

Literature, Theory and Cultural
Studies Program, Philosophy and
Literature Program, Purdue
University, West Lafayette, IN
47907, USA

Prof. Dr. Gregg Jaeger

Quantum Communication and
Measurement Laboratory,
Department of Electrical and
Computer Engineering and
Division of Natural Science and
Mathematics, Boston University,
Boston, MA 02215, USA

Message from the Guest Editors

Arguably more than any other physical theory, even relativity (which does offer some competition in this regard), quantum theory, throughout its history, especially after the discovery of quantum mechanics, has been defined by the role of philosophical thinking in it, on the part of physicists and philosophers alike. The aim of this Special Issue is to contribute to this debate by bringing together both physicists and philosophers, working in different areas of quantum foundations, most especially quantum mechanics and quantum field theory, with the aim exploring the deeper foundational questions arising in these areas, and by doing so, rethinking the origins and the nature of quantum foundations themselves.

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Special Issue



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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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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Contact Us

Entropy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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