Special Issue

Symmetry in Mathematical and Theoretical Physics

Message from the Guest Editor

Mathematical apparatuses used as tools for the solution of physical problems and formulation of physical theories constitute the subject of mathematical physics. The methods of mathematical physics have found applications in a wide variety of theoretical physics problems, such as quantum field theory and theory of elementary particles, fundamental problems of nuclear physics, condensed matter physics, nonrelativistic quantum mechanics, gravitation theory, and theory of chaos. The efforts to put physical theories on a mathematically rigorous basis not only proved useful for physics but also gave rise to new mathematical methods and mathematical objects in such areas as functional analysis, operator algebras, representation theory, analysis of ultrametric spaces, and the random matrix theory. With the significant growth of scientific knowledge and human practical activity, the number of applications that are in the focus of mathematical physics ...

Guest Editor

Dr. Vladimir Al. Osipov

Department of Chemistry, University of California Irvine, Irvine, CA 92697, USA

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

mdpi.com/journal/symmetry

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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