Special Issue

Geometry, Symmetry and Quantum Field Theory

Message from the Guest Editor

Research in modern physics tries to unify, in a consistent context, both the guiding principles of physics and all of the fundamental interactions. The study of problems in the frontiers of quantum field theory, like the quantization of spacetime; the issue of renormalization, algebraic, and topological quantum field theories; and the analysis of advanced quantum field theory, with reference to applications mainly of quantum gravity and quantum cosmology, to the physics beyond the standard model, and to noncommutative geometry, could open new scenarios towards the understanding of the fundamental laws of the universe. Dark energy and dark matter conundrums, particle mixing, f(R) and scalar-tensor theories of gravity represent further systems of particular interest, both for their impact on cosmology and for their fundamental origin, which has been traced to the physics beyond general relativity and the standard model.

Guest Editor

Dr. Capolupo Antonio
Department of Physics E.R. Caianiello, University of Salerno, 132, 84084 Fisciano SA, Italy

Deadline for manuscript submissions

closed (30 November 2022)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/29846

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI