

Special Issue

Spontaneous Breaking of Conformal Symmetry

Message from the Guest Editor

The symmetry principle is one of the guiding rules in physics. Among many possible geometrical symmetries, the conformal one certainly pretends to be fundamental, even so that it is obviously broken in the world around us. The purpose of this Special Issue is to collect contributions on current theoretical research on possible ways of scale invariance and conformal symmetry breaking in different areas of physics. We aim to provide the reader with an updated overview of the recent advances in the field. We wish to invite both original and review papers to this Special Issue along any of the lines related to this fascinating area of research. Keywords

- Spontaneous symmetry breaking
- Nonlinear symmetry realizations
- Conformal symmetry
- Fundamental energy scales
- Hierarchy problem
- Standard Model
- Quantum chromodynamics
- General relativity

Guest Editor

Prof. Dr. Andrej Arbuzov

Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna 141980, Russia

Deadline for manuscript submissions

closed (31 October 2020)



Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



mdpi.com/si/32415

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

mdpi.com/journal/

universe





Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)



About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,
Italy

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), Astrophysics Data System, INSPIRE, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)