



## Fundamental Aspects of Theoretical Physics - Memorial Issue for Prof. Dr. Weinberg

Guest Editors:

**Prof. Dr. Sergei D. Odintsov**

ICREA, P. Lluis Companys 23,  
08010 Barcelona and Institute of  
Space Sciences (IEEC-CSIC), C.  
Can Magrans s/n, 08193  
Barcelona, Spain

**Prof. Dr. Eduardo Guendelman**

Department of Physics, Ben  
Gurion University of the Negev,  
Beer Sheva, Israel

**Prof. Dr. Kimball Milton**

Homer L. Dodge Department of  
Physics and Astronomy, Nielsen  
Hall 325, The University of  
Oklahoma, Norman, OK 73019-  
2061, USA

Deadline for manuscript  
submissions:

**30 April 2025**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue in *Symmetry* devoted to high-energy physics, cosmology, and gravitation, as a Memorial for Prof. Steven Weinberg.

In this Special Issue we want to invite contributions on the subjects developed by Steven Weinberg; personal recollections by people close to him are also welcomed. As is apparent, Weinberg covered all the primary areas of active work at present on fundamental physics, so we welcome contributions in gravity, cosmology, particle physics phenomenology, supersymmetry, and string theory. In the work of Weinberg, the notion of symmetry—in particular gauge symmetry and symmetry breaking—was of particular importance, so we encourage related contributions, including symmetry breaking, etc. We want to honor the memory of one the most important physicists of our time and provide perspectives for the future of fundamental physics as seen by the different contributors.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

---

Symmetry Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/symmetry  
symmetry@mdpi.com  
X@Symmetry\_MDPI