



*symmetry*



an Open Access Journal by MDPI

## Global and Local Scale Symmetry in Gravitation and Cosmology

Guest Editor:

**Prof. Dr. Eduardo Guendelman**

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

Deadline for manuscript  
submissions:

**30 April 2025**

### Message from the Guest Editor

Dear Colleagues,

In our Special Issue on “Global and Local Scale Symmetry in Gravitation and Cosmology” we will review formulations and applications of scale invariance (or “Weyl” invariance) in both its global and local forms, and these will be considered in relation to gravitational theories and their cosmological consequences. Among the subjects of interest are the relation of global scale invariance and the appearance of flat potentials, useful in the inflationary phase of the early universe and the late time accelerated expansion of the universe; the importance of scale invariance for the elimination of the 5-th force problem in scalar field-driven late universe scenarios; the relevance of scale invariance in inflation; and the use of local scale invariance to address important questions in gravitation.

Prof. Eduardo Guendelman

*Guest Editor*



[mdpi.com/si/24905](https://mdpi.com/si/24905)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Sergei Odintsov

1. Institució Catalana de Recerca  
i Estudis Avançats (ICREA),  
Passeig Luis Companys, 23,  
08010 Barcelona, Spain  
2. Institute of Space Sciences  
(ICE-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