



## Symmetry in Nuclear and Particle Physics

Guest Editors:

**Dr. Peibo An**

Department of Physics, Duke  
University, Durham, NC 27708,  
USA

**Dr. Yonglin Zhu**

Department of Physics, North  
Carolina State University,  
Raleigh, NC 27695, USA

Deadline for manuscript  
submissions:

**closed (31 July 2024)**

### Message from the Guest Editors

Dear Colleagues,

Symmetry plays a fundamental role in modern physics, revealing deep insights into the behavior of physical systems. In nuclear and particle physics, the concept of symmetry has far-reaching implications, influencing the structure, interactions, and properties of atomic nuclei and subatomic particles. This Special Issue aims to gather original and significant contributions that explore the diverse manifestations of symmetry in nuclear and particle physics. It serves as a platform for scientists from various disciplines interested in nuclear and particle physics to exchange ideas and present their research. Topics of interest include, but are not limited to, symmetry violations, particle interactions, nuclear models, and the study of exotic nuclei. This issue welcomes theoretical, experimental, and computational works that shed light on the rich interplay between symmetry and nuclear phenomena, fostering a deeper understanding of the atomic nucleus and other subatomic particles.





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