



Advances in Nuclear Astrophysics and Symmetry

Guest Editors:

Dr. Martin V. Ivanov

Institute for Nuclear Research
and Nuclear Energy, Bulgarian
Academy of Sciences, Sofia 1784,
Bulgaria

Prof. Dr. Mitko K. Gaidarov

Institute for Nuclear Research
and Nuclear Energy, Bulgarian
Academy of Sciences, Sofia 1784,
Bulgaria

Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editors

Dear Colleagues,

Nuclear astrophysics is a modern and rapidly evolving field which addresses fundamental science questions at the intersection of nuclear physics and astrophysics. Nuclear astrophysics is the study of nuclear level processes that occur naturally in space. It is an interdisciplinary branch of physics involving close collaboration among researchers in various subfields of nuclear physics and astrophysics. For instance, in nuclear physics, symmetry energy is an important parameter in the equation of state describing the nuclear structure of heavy nuclei and neutron stars, and plays an important role in nuclear astrophysics.

This Special Issue on “Advances in Nuclear Astrophysics and Symmetry” summarizes current problems and questions in theoretical and experimental nuclear astrophysics.





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