Special Issue

Advances in Nuclear Astrophysics and Symmetry

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2024)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/103665

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About the Journal

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.

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