

Special Issue

Exploring Symmetry and Asymmetry in Astrophysics, Astronomy, and Space Science: Paving the Way for a Multiplanetary Future for Humanity

Message from the Guest Editor

Our understanding of the universe continually expands and deepens as we make new strides in astrophysics, astronomy, and space science. In this context, the exploration of symmetry and asymmetry in these fields plays a crucial role. On the one hand, technological advancements empower us to observe the universe, further and broader, with greater precision and detail. Numerous ground-breaking observatories and spacecraft have been developed and launched through various astronomical and space science endeavors, leading to the invention of innovative scientific techniques and the unveiling of remarkable discoveries. On the other hand, these principles help us decipher the fundamental laws governing the cosmos, its structure, and its evolution. Moreover, as human civilization transitions from being Earth-bound to expanding beyond our planet, embracing a multiplanetary existence, it is essential to investigate the role of symmetry and asymmetry in this process.

Guest Editor

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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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