



symmetry



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Recent Advance in Astrophysics

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Deadline for manuscript
submissions:

closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

Symmetry and its violation are not the most common features of astrophysical processes, but these phenomena are found in all areas of astrophysical research. These manifestations include axisymmetric accretion disks and their disturbance by tidal forces, the emergence and maintenance of spiral arms in galaxies, symmetry breaking during phase transitions in the early universe and during baryosynthesis, asymmetry during supernova explosions, single and double jets in quasars and gamma-ray bursts, gravitational lensing and resonance phenomena in celestial mechanics, etc.

This Special Issue of the interdisciplinary journal *Symmetry* will collect observational and theoretical contributions related to symmetry or its violation from various fields of astrophysics, astronomy, and unrelated disciplines.



mdpi.com/si/79267

Special Issue



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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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