

Special Issue

Symmetry and Neutrinos Astronomy

Message from the Guest Editors

Neutrino astronomy is a key frontier in astroparticle physics, providing insights into the most energetic events and the earliest moments of the universe. Spanning energies from sub-eV relic neutrinos to EeV neutrinos from ultra-high-energy cosmic rays and the energetic astrophysical sources, neutrinos uniquely probe hidden aspects of astrophysics and particle physics due to their weak interactions and long-range travel. This Special Issue highlights the broad scope of neutrino astronomy and the symmetry relations that connect neutrinos with other cosmic messengers. From energy transfer in hadronic interactions to flavor symmetry in propagation and deeper theoretical frameworks, these symmetries provide a pathway to a unified understanding of the cosmos.

We welcome submissions across all aspects of neutrino astrophysics—from theory and detection to data-driven and multi-messenger approaches—with emphasis on the role of symmetry across energy scales and cosmic epochs.

Guest Editors

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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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