Special Issue

Symmetry/Asymmetry in Advanced Neutrino Physics

Message from the Guest Editors

Neutrinos remain a key focus in particle physics for testing fundamental symmetries and exploring beyond the Standard Model. This Special Issue highlights recent advances in neutrino physics, emphasizing the link between experimental results and theory. We invite submissions on topics including:

- **Neutrino Interactions and Detector Systematics:** Analyses of neutrino–nucleus interactions, cross-section measurements, and detector-related uncertainties. Submissions on the design and performance of detection technologies like liquid and gaseous argon TPCs, used in Fermilab's Short Baseline Neutrino program and DUNE, are also welcome.
- **Theoretical Perspectives and BSM Physics**: Research exploring theoretical models that address neutrino mass generation, CP violation, sterile neutrinos, and connections to dark matter. Additionally, topics that propose novel search strategies in the detector types mentioned above are particularly encouraged. Interpretations of experimental anomalies within BSM frameworks are also welcome.

This Special Issue also welcomes contributions exploring links between experimental results and theoretical models in neutrino physics. We look forward to your submissions!

Guest Editors

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Deadline for manuscript submissions

30 June 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/244539

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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.

Editor-in-Chief

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