Special Issue

Symmetry in Algebraic Topology, Homological Algebra and Group Theory

Message from the Guest Editors

Symmetry plays a fundamental role in various mathematical disciplines and their applications in fields such as physics, computer science, and beyond. In recent decades, the exploration of symmetry through the lenses of algebraic topology, homological algebra, and group theory has led to significant breakthroughs in our understanding of mathematical structures and their interrelations. We are pleased to invite you to contribute to this Special Issue, which seeks to provide a platform for current research and new developments in the study of symmetry in algebraic contexts. The objective is to assemble a collection of high-quality articles that deepen the theoretical foundations, expand the methodological tools, and promote interdisciplinary applications of symmetry. This Special Issue aims to highlight contemporary research that sits at the interface of these areas and demonstrates the deep and often unexpected connections between symmetry, cohomological methods, and algebraic structure. It aligns closely with the journal's scope on advanced theoretical mathematics and interdisciplinary approaches involving symmetry.

Guest Editors

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Deadline for manuscript submissions

31 March 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/248459

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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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