

## Special Issue

# Symmetry in Mathematical Physics: Current Topics and Recent Advances—in Honour of Professor Jean-Pierre Gazeau on the Occasion of His 80th Birthday

### Message from the Guest Editors

Symmetry remains a cornerstone concept in physics, guiding our understanding of nature across classical, quantum, and modern theoretical frameworks. As Paul Dirac once observed, “...as time goes on, it becomes increasingly evident that the rules which the mathematician finds interesting are the same as those which Nature has chosen”. This Special Issue of *Symmetry* seeks to highlight innovative research and comprehensive reviews related to the role of symmetry in mathematical physics. We welcome original contributions that address group and representation theory, symmetries in quantum field and conformal field theories, as well as the algebraic and geometric methods underlying these structures. Special attention will be given to topics involving spacetime symmetries, especially in maximally symmetric spacetimes such as (anti-)de Sitter space, symmetry-breaking mechanisms, and integrable models. The goal is to foster interdisciplinary dialogue and bring together diverse perspectives that advance our understanding of symmetry in modern physics.

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### Guest Editors

Dr. Hamed Pejhan  
Prof. Dr. Romain Murenzi  
Prof. Dr. Mariano A. del Olmo

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### Deadline for manuscript submissions

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## Symmetry

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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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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
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