

Special Issue

BGL 2022: Dedicated to the Creators of the Non-euclidean Geometry: János Bolyai (220th Anniversary) and N.I. Lobachevski (230th Anniversary)

Message from the Guest Editors

This Special Issue is dedicated to the 190th anniversary of János Bolyai's "Appendix" and to remembering his stay in Lviv 190 years ago (1831-1832). Topics:

- Non-Euclidean geometry in physics (quantum field theory, relativity, astroparticle physics, cosmology, gravitational waves, dark matter, dark energy);
- Non-Euclidean geometry in mathematics (quantum fields in curved spaces, symmetries and supersymmetry, quantum groups and algebras, integrable systems).

We cordially invite researchers working in these fields to contribute original research papers or review articles to this Special Issue of MDPI's SCIE-ranked journal *Symmetry*.

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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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