

Special Issue

Symmetry in Special and General Relativity

Message from the Guest Editor

Symmetry has played a critical role in the development of special and general relativity, and it plays an ongoing role in testing these theories. Lorentz symmetry in particular lies at the foundation of our current best theories of physics. Searches for evidence of broken Lorentz symmetry, along with the associated CPT symmetry and other spacetime symmetries, have become a popular approach to seeking new physics. One particularly exciting motivation is the hope of detecting new physics originating at the notoriously difficult to access Planck scale. The search for such symmetry violations is broad, spanning most areas of contemporary physics. In this Special Issue of *Symmetry*, we explore ideas of symmetry in the foundations and teaching of relativity, as well as in modern efforts to test the symmetries of special and general relativity.

Guest Editor

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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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