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Fundamental Aspects of Theoretical Physics - Memorial Issue for Prof. Dr. Weinberg

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Message from the Guest Editors

Dear Colleagues,

This Special Issue in *Symmetry* devoted to high-energy physics, cosmology, and gravitation, as a Memorial for Prof. Steven Weinberg.

In this Special Issue we want to invite contributions on the subjects developed by Steven Weinberg; personal recollections by people close to him are also welcomed. As is apparent, Weinberg covered all the primary areas of active work at present on fundamental physics, so we welcome contributions in gravity, cosmology, particle physics phenomenology, supersymmetry, and string theory. In the work of Weinberg, the notion of symmetry—in particular gauge symmetry and symmetry breaking—was of particular importance, so we encourage related contributions, including symmetry breaking, etc. We want to honor the memory of one the most important physicists of our time and provide perspectives for the future of fundamental physics as seen by the different contributors.



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Special Issue



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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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