Special Issue

Symmetry, Collider Phenomenology and High Energy Physics

Message from the Guest Editors

Recent experimental results, particularly those of the LHC, have completely transformed the status of particle physics and form the basis of future research directions. Believing that the Higgs boson discovery has completed our understanding of particle physics is too simplistic. On the contrary, much remains to be understood. In fact, a new era, in which we have direct experimental information regarding the physics behind the breaking of electroweak (EW) symmetry, recently begun. This breaking plays a fundamental role in our understanding of particle physics and sits at the high-energy frontier, beyond which we expect to explore uncharted territories that raise deep conceptual concerns theoretically.

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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.

Editor-in-Chief

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