

Special Issue

Higgs Boson and Supersymmetry: 10th Anniversary of the Discovery of the Higgs Boson

Message from the Guest Editor

The discovery of the Higgs particle, 10 years ago, completed the Standard Model (SM) of particle interactions. Its existence was predicted a rather long time ago, around 1964, by several physicists, including Peter Higgs. Its properties have been extensively studied at the CERN Large Hadron Collider, with the result that so far they coincide with what is expected from theoretical expectations. A related entity is the Higgs field, which is assumed to pervade the whole Universe, and which, through its interactions with the known Standard Model particles, provides their mass. Without it, all the particles would be massless. Moreover, without the Higgs particle, a quantum excitation of the Higgs field, some processes involving Standard Model particles would be inconsistent. Therefore, the presence of both the Higgs field and particle can be considered as inevitable within the Standard Model...

Guest Editor

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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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