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Electroweak Symmetry and Theory

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The Standard Model of elementary particle physics is almost consistent with experiments below O(100) GeV. However, there exist some mysteries, and one of the biggest question is "what is the origin of electroweak symmetry breaking?". It implies an existence of fundamental physics behind the Standard Model (Beyond the Standard Model (BSM)), and it is an important clue to search the BSM.

For the BSM, people have suggested "supersymmetry (SUSY)", "extradimension theory", "techni-color theory", etc. We must consider electroweak precision observables seriously. It is very well-come a new idea.
Prof. Naoyuki Haba
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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