



Electroweak Symmetry Breaking 2019

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is devoted to an exploration of the experimental and theoretical status of electroweak symmetry, breaking as it is described by the Standard Model of Particle Physics (SM) in terms of the minimal Higgs sector and in models beyond this. In particular, we invite contributions from experimental groups on the measurement of the branching ratios of the various exclusive Higgs-particle decay channels and their comparison with SM-predictions, including the results of the polarisation measurements. On the theoretical side, submissions on the confrontation of the triple-gauge-boson-vertices dominance hypothesis in analysing deviations from the SM, which is a self-consistent assumption for LEP, results in electroweak precision data, with an analysis of the LHC data based on a more general set of higher dimensional operators in the framework of the Standard-Model Effective Field Theory, are called for...





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Editor-in-Chief

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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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