



## Symmetry on Multiboson Physics

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### Message from the Guest Editor

Dear Colleagues,

In the standard model of fundamental particles, spontaneous symmetry breaking happens when the Higgs mechanism provides some elementary particles with mass, such as the W- and Z-gauge bosons that transport the weak force. Meanwhile, other particles, such as the photon and gluon, that carry the force of electromagnetism and strong interactions, remain massless.

These bosons (especially the W, Z, photon, and Higgs bosons) can be exploited as novel probes either for standard model precision tests or new physics searches. Indeed, with the high energy and luminosity of the LHC, it has become possible to study multiboson-related topics, including double- or triple-gauge boson productions, vector boson fusion or scattering, and new physics searches in detail, either indirectly through effective field theory or directly for resonance decay into multiple bosons with high momenta...





# symmetry



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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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