

Phenomenology 2021 Symposium



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Searches for new physics in Extended Higgs Sectors in CMS

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Exotic decays of the Higgs boson are a well-motivated possibility, even with the discovery of a Higgs particle consistent with the SM, and they may provide the only window into BSM physics at the LHC. The Higgs boson can be used as a probe for new physics in many BSM scenarios, and this talk will cover the recent searches for exotic decays of the Higgs boson, using proton-proton collision data collected by the CMS experiment at a center-of-mass energy of 13 TeV. Higgs boson decays that are not expected in the SM, such as decays to pairs of light (pseudo) scalars, will also be covered.

Summary

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