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Higgs Boson and New Physics at the Large Hadron Collider

Department of Physics Colloquium

The Large Hadron Collider is exploring physics at an unprecedented TeV energy frontier. The discovery of the Higgs boson is an important milestone. It provides one crucial piece of information about the weak interaction, which is the most intriguing among all known fundamental interactions in nature. It also marked the beginning of a new stage in the search for new physics beyond the Standard Model. I will survey our current knowledge about the Higgs boson, and describe its connection to the new physics models.



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