

Searches for additional heavy Higgs bosons

Thursday, November 10, 2022 2:15 PM (15 minutes)

Extensions of the Standard Model Higgs sector with a second Higgs doublet allow for the existence of charged Higgs bosons as well as heavy pseudoscalar Higgs bosons. The heavy pseudoscalars can decay into a Z boson and a lighter scalar Higgs boson, which could be either the established 125 GeV state, or a new heavier sibling. Charged Higgs bosons are probed in various final states, including decays to a W boson and another lighter scalar. This presentation discusses recent results from the CMS experiment based on the Run 2 dataset.

Type of talk

Experimental measurements

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Session Classification: Thursday Session B

Track Classification: Physics Topics: Beyond the Standard Model