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Higgs Couplings to Weak Gauge Bosons: Probing 2 New Physics Scales at Once!

mardi 25 avril 2023 15:00 (20 minutes)

Measuring the Higgs boson couplings with an increasing precision is an indirect probe of new physics scenarios. In this talk, I will discuss how observing loop-induced deviations to hWW and hZZ couplings via new vectorlike leptons close to the weak scale can be used to deduce an upper bound on the mass scale of new bosons. This is an interesting example where observing a deviation to the Standard Model predictions allows probing new physics at a scale higher than the new mass scale that is responsible for the anomaly.

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