
Lower Higgs-mass bounds from generalized Yukawa interactions

Matthias Warschinke*¹

¹Chiba University – Japan

Abstract

We investigate a gauged Higgs-Yukawa model within the framework of the Functional Renormalization Group. In previous studies, it has been shown that the inclusion of higher dimensional operators beyond ϕ^4 in the bare potential of the Higgs field ϕ can diminish the lower Higgs – mass bound and thus shift the onset of new physics.

*Speaker