

Higgs to diphoton and vanilla new Physics

Thursday 23 May 2013 17:30 (15 minutes)

After an introduction on the current experimental status of the Higgs boson, I will study the effect of new vector-like fermions on the $h \rightarrow \gamma\gamma$ channels, in which the effect of new physics may be already showing up. In particular, I will analyze colored and uncolored fermions in their smallest $SU(2)$ representations, and the modifications to the previously mentioned channels in regions allowed by electroweak precision measurements.

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Session Classification: Parallel Session on Higgs Physics