
KMI - Theory Seminar

Thursday, September 6, 2012

5:30 pm, KMI Science Symposia (ES-635)

“Is it a (Beyond the) Standard Model Higgs?”

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Abstract:

We perform a global analysis of the properties of the ~ 125 GeV Higgs candidate by combining the latest available data from the CMS, ATLAS and Tevatron experiments, constraining the possible deviation of its couplings from those of a Standard Model Higgs. We show that the coupling of the Higgs candidate are consistent with a linear dependence on particle masses, scaled by the electroweak scale ~ 246 GeV, the power law and the mass scale both having uncertainties $\sim 20\%$.