



Contribution ID: 8

Type: **parallel talk**

New Physics in Higgs pair production

Tuesday 10 May 2016 14:15 (15 minutes)

Higgs pair production is not only interesting as a probe of the trilinear Higgs self-coupling but it can also help to constrain SM extensions. In this talk I will discuss the question whether New Physics might show up for the first time in Higgs pair production focusing on the gluon fusion production process. There is a plethora of New Physics phenomenology like new couplings, new loop particles or new resonances, that can show up in this process. Finally, I will comment on next-to leading order QCD corrections to Higgs pair production in the MSSM and in composite Higgs models with and without new vector-like fermions.

Summary

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Session Classification: BSM Higgs II