



Contribution ID: 49

Type: **parallel talk**

Model Agnostic limits on Colored Naturalness

Tuesday 10 May 2016 15:15 (15 minutes)

Many models that explain naturalness introduce colored top partners to cancel the top quadratic divergence. These colored top partners modify SM rates of gluon fusion and Higgs decays to gg and $\gamma\gamma$. We present a model agnostic analysis of scalar, fermionic and vector top partners and discuss the potency of other BSM scenarios like invisible Higgs decays to hide these colored top partner signatures. We also present caveats that throw up model building challenges.

Summary

Author: RAMANI, Harikrishnan (Yang Institute Of Theoretical Physics)

Co-authors: MEADE, Patrick (Stony Brook University); ESSIG, Rouven; ZHONG, Yiming (Stony Brook University)

Presenter: RAMANI, Harikrishnan (Yang Institute Of Theoretical Physics)

Session Classification: BSM Higgs II