

LABORATORI NAZIONALI DEL GRAN SASSO

THEORETICAL SEMINAR

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**Does Higgs to gamma
gamma taste like vanilla
New Physics?**

We analyse the interplay between the Higgs to diphoton rate and electroweak precision measurements constraints in extensions of the Standard Model with new uncolored charged fermions that do not mix with the ordinary ones.

We also compute the pair production cross sections for the lightest fermion and compare them with current bounds.

**SEPTEMBER 13, 2012 – 2:30 PM
LNGS - “B. PONTECORVO” ROOM**