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Type: **Ordinary**

Low mass diphoton resonances at LHC

mardi 13 mars 2018 18:00 (15 minutes)

We derive a new bound on diphoton resonances using inclusive diphoton cross section measurements at the LHC, in the so-far poorly constrained mass range between the Upsilon and the SM Higgs. This bound sets the current best limit on axion-like particles that couple to gluons and photons, for masses between 10 and 65 GeV. We also estimate indicative sensitivities of a dedicated diphoton LHC search in the same mass region, at 7, 8 and 14 TeV.

Summary

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Classification de Session: Tuesday afternoon: BSM (Susy and exotics (cont))