

Searches for resonant and non-resonant new phenomena in CMS

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Many new physics scenarios beyond the Standard Model predict the presence of narrow or broad resonances decaying to a pair of quarks/gluons, charged/neutral leptons, photons and their combinations, or a multi-jet final state. Non-resonant excess in tails of mass and transverse momentum distributions is another strong indication of new physics. This talk highlights recent CMS searches on new phenomena in di-jet, multi-jet, dilepton, photon+jet, diphoton and multi-jet final states using LHC Run 1 data. First LHC Run-2 results and/or prospects will be privileged, if available.

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