

# International Conference on High Energy Particle & Astroparticle Physics (ICHEPAP2023)



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## Searches for heavy particles decaying to Higgs boson(s) in CMS experiment

*Tuesday, 12 December 2023 15:50 (20 minutes)*

**Abstract:** The CMS experiment at LHC has an extensive program to look for signatures of new physics to address several observed phenomena not explained by the standard model of particle physics. In this talk, I will review the recent CMS results on searches for a massive resonance decaying to final states involving one or more Higgs bosons. In this scope, I will highlight some exciting excesses of events observed in a few searches and mention the expected physics reach in the high-luminosity phase of LHC.

**Presenter:** CHATTERJEE, Suman (Austrian Academy of Sciences)

**Session Classification:** Parallel Session 2: Collider