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Type: **Parallel session talk**

Rare Higgs boson production and decay at CMS

Tuesday 22 August 2023 09:50 (20 minutes)

We discuss rare Higgs boson production and decay channel searches with the CMS experiment. A particular focus of this talk are searches for very rare Higgs boson decays to a neutral light meson or quarkonium and a photon or Z boson, whose standard model branching fraction predictions are in the range 10^{-4} - 10^{-9} . Such searches can help constrain Yukawa couplings to light and charm quarks. Other rare Higgs boson production and decay channels, such as $H \rightarrow Z\gamma$, will also be discussed.

Collaboration / Activity

CMS

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