



Contribution ID: 88

Type: **Parallel session**

Searches for rare Higgs boson production modes at CMS

Tuesday, 28 November 2023 12:10 (15 minutes)

We discuss rare Higgs boson production modes studied with the CMS experiment. Rare production modes where the Higgs boson is produced in association with a quark provide a channel to test Higgs Yukawa couplings independently from the Higgs boson decay. Such searches have been carried out by the CMS Collaboration using the dataset collected by the CMS experiment, exploiting a variety of Higgs boson decay channels. Results of these experimental studies are presented and confronted against predictions of the SM and BSM theories.

You are

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Session Classification: Parallel: Precision & Yukawas

Track Classification: Precision & Yukawas