

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



Contribution ID: 144

Type: **not specified**

## Search for exotic and rare Higgs boson decays at CMS

*Tuesday, 12 April 2016 10:00 (15 minutes)*

Recent results on searches for exotic production and rare decays of the Higgs boson  $H(125)$  are presented. The current status of the searches for invisible and quasi invisible decays, decays to  $J/\Psi + \text{Gamma}$ , and lepton flavour violation ( $\mu\mu$ ,  $e\mu$ ,  $\mu\tau$ ) decays of the boson will be reviewed, based on pp collision data collected at centre-of-mass energies of 7 and 8 TeV by the CMS collaboration at the LHC. Prospects will be given to extend these searches in the Run2 of the LHC.

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**Session Classification:** WG3 Electroweak Physics and Beyond the Standard Model

**Track Classification:** Electroweak Physics and Beyond the Standard Model