

## Search for $H \rightarrow \gamma^* \gamma$ and $H \rightarrow J/\psi \gamma$ decays at CMS

A search for a Higgs boson decaying into two photons, one of which has an internal conversion to a muon or an electron pair will be described. Events are required have an opposite-sign muon or electron pair and a high transverse momentum photon. Additionally, upper limits on the branching fraction of a Higgs boson decays to a  $J/\psi$  and a photon will be reported.

**Primary author:** CMS EXPERIMENT, CMS experiment (CMS experiment)

**Presenter:** CMS EXPERIMENT, CMS experiment (CMS experiment)